**EPA** 

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MONTAINS

OFFICE



90-900000025

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Comprehensive Assessment Information Rule REPORTING FORM

For Agency Use Only:

Date of Receipt:

Document
Control Number:

Docket Numbe:

When completed, send this form to:

Document Processing Center
Office of Toxic Substances, TS-790
S. Environmental Protection Agency
401 M Street, SW
Washington, DC 20460
Attention: CAIR Reporting Office

### CAIR REPORTING FORM CHECKLIST

## THIS CHECKLIST IS NOT REQUIRED TO BE SUBMITTED, IT IS FOR RESPONDENT'S INTERNAL USE ONLY

This form is intended to gather information on a specific listed substance that is manufactured, imported, or processed at one facility. Respondents must answer only those sections or specific questions required in the CAIR rule.

Respondents may use the same form each time they must report. The original copy of the form received by respondents should be kept on file and used to make copies of the questions required to be answered. These copies may then be circulated to those employees who will complete the form. Respondents must submit only one copy of each question rather than compiling parts of each question from various employees and submitting them together as one question.

Respondents need only supply information on the form that is "known to or reasonably ascertainable by" the respondent. Refer to the glossary for this definition. All reports with incomplete responses will be assessed as invalid and a Notice of Noncompliance Error Letter and a copy of the question will be sent to you for completion.

Before completing any portion of this form, please read the instruction booklet. The booklet contains general instructions on how to comply with the rule, supplemental instructions and sample answers for many questions, and a glossary containing definitions of key terms. Refer to the glossary whenever an unknown term appears to examine the definition provided.

If you cannot determine your reporting obligations, you should call the TSCA Assistance Office, U.S. EPA, at (202) 554-1404. To obtain additional forms, write to the TSCA Assistance Office (TS-779), ATTN: CAIR Form Request, Office of Toxic Substances, Environmental Protection Agency, Room E-543, 401 M St., SW, Washington, DC 20460, or call at (202) 554-1404.

### BEFORE RETURNING YOUR COMPLETED CAIR FORM PLEASE CHECK THE FOLLOVING:

_	1.	Have you completed and included Section 1 for each form you are submitting?
_	2.	Have you submitted a standard chemical name and Chemical Abstract Service Registry Number for each chemical you are reporting on?
(D)	3.	Does your submitted form include the original certification signatures as required for questions 1.06, 1.07, and 1.08?

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4.	Have you submitted a completed separate form for each substance you are required to report on?
5.	Have you submitted a completed separate form for each site at which you manufacture, import, or process a listed substance?
6.	For each listed substance you must report on, have you reported on all activities you engage in at each site using the listed substance on the same reporting form?
7.	If you are claiming information as Confidential Business Information (CBI), have you completed the CBI substantiation form in Appendix II of the form for each category containing CBI? Failure to submit a completed CBI substantiation form with a reporting form containing CBI will result in the waiver of your claim of confidentiality.
8.	For each question that you are required to answer, have you responded by either providing the data, stating not applicable ("N/A"), or, if the question permits, stating unknown ("UK")?
9.	Have you right justified your responses to questions asked that require respondents to give a numeric response in a series of boxes (e.g., the answer "372" is entered as [0][0][3][7][2])?
10.	Have your responses been given in alpha, numeric or alpha-numeric form such as 3 million or 3,000,000? Responses must not be given in scientific notation such as $3 \times 10^6$ .
11.	If you needed additional space to report the required data, have you checked the continuation sheet box at the bottom of each page that requires additional space; attached additional copies of the specific questions of this form that contain additional information; and listed the attachments in Appendix I of the reporting form?

		SEC	TION 1	GENERAL MA	NUFACTURER	, IMPORTE	R, AND P	ROCESSOR	INFORMA	TION	
PART	A	GENERA	L REPOR	TING INFORM	IATION						_
1.01	T	his Com	prehens	ive Assessm	ent Inform	ation Rule	cAIR)	Reporti	ng Form	has been	
CBI	C	omplete	d in re	sponse to t	he <u>Federal</u>	Register	Notice	of		$\begin{bmatrix} \overline{\lambda} \\ \overline{\lambda} \end{bmatrix} \underline{\lambda}  \begin{bmatrix} \overline{8} \\ \overline{8} \end{bmatrix} \underline{8}$	
[_]	а	. If a	Chemic	al Abstract	s Service	Number (CA	S No.)	is provi	ded in t	he <u>Federal</u>	
		Regi	ster, 1	ist the CAS	No	• • • • • • • •	[]		<u>  5 8 </u> 9	]-[ <u>&amp;]4</u> ]-[q	<u>_</u> ]
	ь	61 f D G	er (1)	al substanc the chemica l substance	l name, (i:	i) the mix	ture na	me. or (	iii) the	gister, list trade name of	£
		(i)	Chemi	cal name as	listed in	the rule	•••••				·
		(ii)									
		(iii)	Trade	name as li	sted in the	rule	(	EN-9 C	20 PP	IRT A	
	c.	repor	category cting or	/ as listed	in the rulls under th	le, the ch ne listed	emical :	substanc	e CAS No.	ral name of th	
		Name	of cate	gory as lis	sted in the	rule	•••••				
•		CAS N	lo. of c	hemical sub	ostance	• • • • • • • •	[]		]	]-[_]_]-[_	]
		Name	of chem	ical substa	ince	•••••	•••••	·			_
1.02										response(s).	_
CBI	Ma	nufactu	rer	• • • • • • • • • • •	• • • • • • • • • •	•••••	• • • • • • •	• • • • • • •	• • • • • • •	•••••	1
	Im	porter	• • • • • •	•••••••	•••••	• • • • • • • • •	• • • • • • •	• • • • • • •	••••••	•••••	2
-	Pr	ocessor	•••••	• • • • • • • • • •	•••••••	•••••	• • • • • • •	•••••	•••••	(	3
	<b>X</b> /:	P manuf	acturer	reporting	for custom	er who is	a proce	essor	•••••	******	4
	<b>X/</b> 1	P proce:	ssor re	porting for	customer	who is a p	processo	or	••••••	•••••	5
					4						
	larl	c (X) +i	nis boy	if you att	ach a cont	inustion	heet		<del></del>		_

1.03 CBI	Does the substance you are reporting on have an " $x/p$ " designation associated with it in the above-listed <u>Federal Register</u> Notice?								
	Yes	· · · · · ·		$[\overline{\underline{\times}}]$ Go to questi	on 1.04				
	No	• • • • •	[	[_] Go to questi	on 1.05				
1.04 <u>CBI</u>	a.	Circl Yes .	ou manufacture, import, or process the listed substance a trade name(s) different than that listed in the Felle the appropriate response.	it listed in the <u>Federal Register</u> Notice?					
	b.		t the appropriate box below: $\omega/A$						
			You have chosen to notify your customers of their re	reporting obligation	ons				
	•		You have chosen to report for your customers  You have submitted the trade name(s) to EPA one day date of the rule in the Federal Register Notice undereporting.	after the effect der.which you are	ive				
1.05 CBI	repo	orting	y a trade name product and are reporting because you requirements by your trade name supplier, provide the	were notified of that trade name.	your				
 [ <u>_</u> ]	Trac	ie nam	e EN-9 OZR PART A						
			ade name product a mixture? Circle the appropriate re						
			•••••••••••••••••••••••••••••••••••••••						
1.06 CBI	Cert sign	ifica	tion The person who is responsible for the complets certification statement below:	tion of this form	must				
	ente	ered or	certify that, to the best of my knowledge and belief, in this form is complete and accurate."  C. Wightman  Sleet Naght						
	<u>Se</u>	nior	C. Wightman Slend Naght NAME SIGNATURE  Engineer (201) 771 - 4649  TITLE TELEPHONE NO.	DATE SIG	NED				
	ark	(X) th	nis box if you attach a continuation sheet.						

	Exemptions From Reporting If you have provided EPA or another Federal agency with the required information on a CAIR Reporting Form for the listed substance within the past 3 years, and this information is current, accurate, and complete for the time period specified in the rule, then sign the certification below. You are required to complete section 1 of this CAIR form and provide any information now required but not previously submitted. Provide a copy of any previous submissions along with your Section 1 submission.								
		est of my knowledge and belief, luded in this CAIR Reporting For nd is current, accurate, and com							
	NAME	SIGNATURE	DATE SIGNED						
			DATE SIGNED						
	TITLE	TELEPHONE NO.	DATE OF PREVIOUS SUBMISSION						
1	"My company has taken measures to and it will continue to take thes been, reasonably ascertainable by using legitimate means (other that a judicial or quasi-judicial procinformation is not publicly avail would cause substantial barm to -	other persons (other than gover an discovery based on a showing of	not, and has not nment bodies) by f special need in						
	N/A	. ,	•						
	NAME NAME		f the information						
		SIGNATURE	•						
			f the information						

PART	B CORPORATE DATA
1.09	Facility Identification
<u>CBI</u>	
[_]	Address [일이년] [이리티티티티드] [HOIP] [이리티티드] [NID] [IT] [IT] [IT] [IT] [IT] [IT] [IT] [IT
	[용][[][[[
	[진]은] [과기도]기([-[]]] State
	Dun & Bradstreet Number
	EPA ID Number (RCRA)   NC 0 0 0 1 4 3 4 7 4 5   1   1   1   1   1   1   1   1   1
	√Employer ID Number
	Primary Standard Industrial Classification (SIC) Code
	Other SIC Code
	Other SIC Code
1.10	Company Headquarters Identification
CBI	
[_]	Address [5]5]5]5]1M]A]0]±15]6]N]1]1A]V[6]1]1]1]1]1]1]1]1]1
	[진본]진 _]도]집[조]조]조][-]_]_]_]_]_]_]_] City
	[진] [기일] [기일] [기일] [기일] [기일] [기일] [기일] [기일
	Dun & Bradstreet Number
V	Employer ID Number
[] H	ark (X) this box if you attach a continuation sheet.

Parent Company Identification $N/A$
Name [ ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ]
[_]_] [_]_]_]]]]]]  Dun & Bradstreet Number
Technical Contact
Name [G] [E] [N] [N] [C] [N] [E] [A] [F] [A] [A] [N] [N] [N] [N] [N] [N] [N] [N] [N] [N
$[ \underline{N} ] \underline{S} ]  [\underline{o}] \underline{7} ] \underline{2} ] \underline{2} ] - [\underline{2}] \underline{7} ] \underline{7} ]$ Telephone Number
This reporting year is from

1.14	Facility Acquired If you purchased this facility during the reporting year, provide the following information about the seller: $N \mid A$
<u>CBI</u> [_]	Name of Seller [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_] [_]]]][_]]]] State
	Employer ID Number
	Date of Sale
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	Telephone Number
1.15	Facility Sold If you sold this facility during the reporting year, provide the following information about the buyer: $\nu$
CBI	Name of Buyer [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_] [_]]]]-[_]]]] State
	Employer ID Number
	Date of Purchase
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	Telephone Number
_j	Mark (X) this box if you attach a continuation sheet.

Classification	Quantity (k
Manufactured	NIA
Imported	
Processed (include quantity repackaged)	00
Of that quantity manufactured or imported, report that quantity:	<del></del> ,
In storage at the beginning of the reporting year	·· NIA
For on-site use or processing	
For direct commercial distribution (including export)	
In storage at the end of the reporting year	·· NA
Of that quantity processed, report that quantity:	
In storage at the beginning of the reporting year	<u>alu</u>
Processed as a reactant (chemical producer)	NIA
Processed as a formulation component (mixture producer)	NIA
Processed as an article component (article producer)	22
Repackaged (including export)	
In storage at the end of the reporting year	·· NIA

17 <u>I</u>	chemica	If the list mponent of a mil. (If the mix mponent chemica	rmation fo	r each co	mnonent				
<u> </u>		Component Name			Supplie Name	er	(sp	Average osition becify pre	y Weightecision,
*	Toluen	Mer ingredian	yanete Ks disclose	Cana	p. Inc	-		×15%	
₹	MSDS	Ingrediant	listing	Aor	EN-9	ozr	Total Part A		100%
		•		e.					
						·			

	SECTION 2 MANUFACTURER, IMPORTER, AND PROCESSOR VOLUME AND USE
2.01 CBI	State the total number of years, including the reporting year, that your facility has manufactured, imported, or processed the listed substance.
	Number of years manufactured yrs
	Number of years imported yrs.
	Number of years processed yrs.
2.02	State the quantity of the listed substance that your facility manufactured, imported or processed during the corporate fiscal year preceding the reporting year.
<u>CBI</u> []	Year ending
	Quantity manufactured kg
	Quantity imported kg
	Quantity processed
2.03 CBI	State the quantity of the listed substance that your facility manufactured, imported or processed during the 2 corporate fiscal years preceding the reporting year in descending order.  Year ending
	Quantity manufactured kg
	Quantity imported kg
	Quantity processed kg
	Year ending
	Quantity manufactured kg
÷	Quantity imported kg
	Quantity processed kg
1	Mark (X) this box if you attach a continuation sheet.

2.04	State the quantity of the listed substance that your facility man or processed during the 3 corporate fiscal years preceding the re descending order.	ufactured, in porting year	mported, in
<u>CBI</u>			
[_]	Year ending	[ <u>7]</u> 2]	[ <u>평]</u> ]] Year
	Quantity manufactured	NA	kg
	Quantity imported	N/A	kg
	Quantity processed	22	kg
	Year ending		
	Quantity manufactured	NA	ko
	Quantity imported	NA	 kø
	Quantity processed	6	kg
	Year ending	[ <u>7]₹</u> ] Mo.	[ <u>8]5</u> ] Year
	Quantity manufactured	N/A	ko
	Quantity imported	N/A	kg
	Quantity processed	'A	kg
2.05 CBI	Specify the manner in which you manufactured the listed substance. appropriate process types.  NA - Processor	Circle all	
[_]			
	Continuous process		_
	Semicontinuous process		
	Batch process	• • • • • • • • • • • • • • • • • • • •	3
_1	Mark (X) this box if you attach a continuation sheet.		

manufactured, imported, or processed at any time after your current corporate, estimate the increase or decrease based upon the reporting year's volume.    Manufacturing   Importing   Processed   Pr	ng the listed answer this kg/y
Batch process  2.07 State your facility's name-plate capacity for manufacturing or processin substance. (If you are a batch manufacturer or batch processor, do not question.)  []  Manufacturing capacity  Processing capacity  2.08 If you intend to increase or decrease the quantity of the listed substant manufactured, imported, or processed at any time after your current corpy year, estimate the increase or decrease based upon the reporting year's volume.  []  Manufacturing Importing Processed Quantity (kg)  Quantity (kg)  Amount of increase    DA   DA	ng the listed answer this kg/y
2.07 State your facility's name-plate capacity for manufacturing or processin substance. (If you are a batch manufacturer or batch processor, do not question.)  []  Manufacturing capacity  Processing capacity  2.08 If you intend to increase or decrease the quantity of the listed substant manufactured, imported, or processed at any time after your current corpuser, estimate the increase or decrease based upon the reporting year's volume.  []  Manufacturing Importing Processed at any time after your current corpusers and the increase or decrease based upon the reporting year's your current year's your current year's your year.	g the listed answer this kg/y
substance. (If you are a batch manufacturer or batch processor, do not question.)  [	kg/y: kg/y: kg/y:
Processing capacity  2.08 If you intend to increase or decrease the quantity of the listed substant manufactured, imported, or processed at any time after your current corporate, estimate the increase or decrease based upon the reporting year's volume.	kg/yı
2.08 If you intend to increase or decrease the quantity of the listed substance manufactured, imported, or processed at any time after your current corporate, estimate the increase or decrease based upon the reporting year's volume.    Manufacturing   Importing   Processed   Quantity (kg)   Quantity (	kg/yı
Wanufacturing Importing Processed at any time after your current corporate, estimate the increase or decrease based upon the reporting year's volume.	·
Amount of increase  Quantity (kg)  Quantity (kg)  Quantity (kg)  Quantity (kg)  Quantity (kg)	£11
$\prime$	ocessing ntity (kg)
$\prime$	0
	0

2.09	listed substanc substance durin	argest volume manufacturing or processing proce e, specify the number of days you manufactured g the reporting year. Also specify the average s type was operated. (If only one or two opera	or processed number of h	the listed ours per
<u>CBI</u>	•			Augraga
[_]			Days/Year	Average Hours/Day
	Process Type #1	(The process type involving the largest quantity of the listed substance.)		
		Manufactured		
		Processed Polling of I/O Cable Assembly	5-/0	>.5
	Process Type #2	(The process type involving the 2nd largest quantity of the listed substance.)		
		Manufactured		
		Processed		
	Process Type #3	(The process type involving the 3rd largest quantity of the listed substance.)		
		Manufactured		
		Processed		
2.10 CBI		um daily inventory and average monthly inventor was stored on-site during the reporting year in		
	Maximum daily in	nventory		kg
	Average monthly	inventory	•	kg
[_]	Mark (X) this bo	ox if you attach a continuation sheet.		

<u>CBI</u>	the listed sub tured, importe means the sour introduced int etc.).	t Types List any by stance in concentration d, or processed. The ce from which the bypro the product (e.g., concentration of the product (e.g., concentration)	ns greater than O. source of byproduc oducts, coproducts arryover from raw	1 percent as it its, coproducts, s, or impurities material, reacti	is manufac- or impurities are made or
	CAS No.	Chemical Name	Byproduct, Coproduct or Impurity	Concentration (%) (specify ± % precision)	Source of By- products, Co- products, or Impurities
				-	
				· · · · · · · · · · · · · · · · · · ·	
	<pre>1Use the follow B = Byproduct C = Coproduct I = Impurity</pre>	ving codes to designate	∍ byproduct, copro	duct, or impurity	7:

<sup>[</sup>\_] Mark (X) this box if you attach a continuation sheet.

2.12 <u>CBI</u> [_]	Existing Product Types imported, or processed the quantity of listed total volume of listed quantity of listed sublisted under column b. the instructions for for	using the listed su substance you use f substance used duri stance used captivel , and the types of e	bstance during the re or each product type ng the reporting year y on-site as a percer and-users for each pro-	eporting year. List as a percentage of the r. Also list the ntage of the value
	<b>a.</b>	<ul><li>b.</li><li>% of Quantity</li><li>Manufactured,</li><li>Imported, or</li></ul>	c. % of Quantity Used Captively	d.,
	Product Types <sup>1</sup>	Processed	On-Site	Type of End-Users <sup>2</sup>
	X	100	N14	H = DOD
	<pre>"Use the following code A = Solvent B = Synthetic reactant C = Catalyst/Initiator     Sensitizer D = Inhibitor/Stabiliz     Antioxidant E = Analytical reagent F = Chelator/Coagulant G = Cleanser/Detergent H = Lubricant/Friction     agent I = Surfactant/Emulsif J = Flame retardant K = Coating/Binder/Adh</pre>	t r/Accelerator/ zer/Scavenger/ t t/Sequestrant t/Degreaser n modifier/Antiwear fier nesive and additives	L = Moldable/Castabl M = Plasticizer N = Dye/Pigment/Colo O = Photographic/Rep and additives P = Electrodepositio Q = Fuel and fuel ad R = Explosive chemic S = Fragrance/Flavor T = Pollution contro U = Functional fluid V = Metal alloy and W = Rheological modi X = Other (specify)	on/Plating chemicals dditives cals and additives c chemicals ol chemicals ds and additives additives additives
	<sup>2</sup> Use the following code I = Industrial CM = Commercial	CS = Cons		·
<u> </u>	Mark (X) this box if yo	ou attach a continua	tion sheet.	

corporate fiscal year. import, or process for substance used during the used captively on-site at types of end-users for the captively on-site at	For each use, speceach use as a percenter the reporting year. as a percentage of each product type.	ify the quan ntage of the Also list t the value li	total volume of he quantity of l sted under colum	to manufacture listed isted substance n b., and the
a.	<b>b.</b>	С	•	d.
Product Types <sup>1</sup>	% of Quantity Manufactured, Imported, or Processed	Used Ca	ptively	of End-Users <sup>2</sup>
WIA	A	<u>ا</u> ا	A	NIA
1	1	1		1
		-	<del></del>	
		_		_
		_		
		i		
3				
			· · · · · · · · · · · · · · · · · · ·	
A = Solvent B = Synthetic reactant C = Catalyst/Initiator/ Sensitizer D = Inhibitor/Stabilize Antioxidant E = Analytical reagent F = Chelator/Coagulant/ G = Cleanser/Detergent/ H = Lubricant/Friction agent I = Surfactant/Emulsifi J = Flame retardant K = Coating/Binder/Adhe	'Accelerator/ er/Scavenger/ 'Sequestrant 'Degreaser modifier/Antiwear er esive and additives to designate the  CS = Cons	L = Moldable M = Plastic: N = Dye/Pig: O = Photogrand add: P = Electroe Q = Fuel and R = Explosiv S = Fragrand T = Pollutio U = Function V = Metal a: W = Rheolog: X = Other (so	izer ment/Colorant/Inlaphic/Reprograph: itives deposition/Plating depo	k and additives ic chemical ng chemicals additives als cals dditives
_	import, or process for substance used during the used captively on-site at types of end-users for explanation and an example a.  Product Types  Product Types  I Use the following codes  A = Solvent B = Synthetic reactant C = Catalyst/Initiator Sensitizer D = Inhibitor/Stabilize Antioxidant E = Analytical reagent F = Chelator/Coagulant G = Cleanser/Detergent H = Lubricant/Friction agent I = Surfactant/Emulsifit J = Flame retardant K = Coating/Binder/Adhe Use the following codes  I = Industrial CM = Commercial	import, or process for each use as a perce substance used during the reporting year. used captively on-site as a percentage of types of end-users for each product type. explanation and an example.)  a. b.  Z of Quantity Manufactured, Imported, or Processed  W / A Imported, or Processed  W / A Imported, or Processed  A = Solvent B = Synthetic reactant C = Catalyst/Initiator/Accelerator/ Sensitizer D = Inhibitor/Stabilizer/Scavenger/ Antioxidant E = Analytical reagent F = Chelator/Coagulant/Sequestrant G = Cleanser/Detergent/Degreaser H = Lubricant/Friction modifier/Antiwear agent I = Surfactant/Emulsifier J = Flame retardant K = Coating/Binder/Adhesive and additives  **Use the following codes to designate the I = Industrial CS = Cons CM = Commercial H = Othe	import, or process for each use as a percentage of the substance used during the reporting year. Also list to used captively on-site as a percentage of the value litypes of end-users for each product type.  A. b. c   **Z of Quantity Manufactured, Imported, or Product Types Processed  **Processed  **Processed  **Imported, or Processed  **Processed  **On	## Analytical reagent ## Celeanser/Detergent/Degreaser ## L E Wifacture/ Sensitizer ## Celeanser/Detergent/Degreaser ## L E Wifacture/ Supplied and additives ## L E Wifacture/ Supplied and additives ## L E Wifacture/ Supplied and additives ## Pinetional fluids and actured agent ## Lubricant/Friction modifier/Antiwear agent ## Lubricant/Emulsifier ## Celeanser/Detergent/Degreaser ## Lubricant/Friction wodifier/Antiwear agent ## Lubricant/Emulsifier ## Pollution control chemic we were additives ## Pollution control chemic we we we were additives ## Pollution control chemic we we were additives ## Pollution control chemic we we were additives ## Pollution control chemic we we we were additives ## Pollution control chemic we we should additive we we have additives ## Pollution control chemic we we should additive we were additives ## Pollution control chemic were additives ## Pollution con

<b>a.</b>	b.	c. Average % Composition of	d.		
Product Type <sup>1</sup>	Final Product's Physical Form <sup>2</sup>	Listed Substance in Final Product	Type of End-Users		
<u> </u>	<u></u>	<u> </u>	H = 000.		
	odes to designate pro				
A = Solvent	•	L = Moldable/Castab	le/Rubber and add		
B = Synthetic react		<pre>M = Plasticizer N = Dye/Pigment/Col</pre>	orant/Ink and add		
<pre>C = Catalyst/Initia Sensitizer</pre>	tor/Accelerator/	0 = Photographic/Re			
D = Inhibitor/Stabi	lizer/Scavenger/	and additives	prographic chemi-		
Antioxidant		P = Electrodepositi	on/Plating chemi-		
E = Analytical reag	ent	Q = Fuel and fuel a			
F = Chelator/Coagul	ant/Sequestrant	R = Explosive chemi			
G = Cleanser/Deterg		S = Fragrance/Flavo			
	ion modifier/Antiwear				
agent		U = Functional flui			
I = Surfactant/Emul	sifier	V = Metal alloy and			
J = Flame retardant		W = Rheological mod			
K = Coating/Binder/Adhesive and additives X = Other (specify) Potting  2Use the following codes to designate the final product's physical form:					
			ical form:		
A = Gas		stalline solid			
<pre>B = Liquid C = Aqueous solution</pre>	F3 = Gra $F4 = Oth$				
C = Aqueous solution D = Paste	$ \begin{array}{ccc} \mathbf{G} &= \mathbf{G}\mathbf{G} \\ \mathbf{G} &= \mathbf{G}\mathbf{G}\mathbf{G} \end{array} $				
E = Slurry		er (specify)			
F1 = Powder		, . , <u></u>			
<sup>3</sup> Use the following co	odes to designate the	type of end-users:			
I = Industrial	CS = Con				
CM = Commercial	H = 0th	er (specify) $\underline{\mathfrak{Doo}}$ .	<del></del>		

2.15 CBI		cle all applicable modes of transportation used to deliver bulk shipments of ted substance to off-site customers.  NIA PROCESSUR NO BULK 54 PMENTS.	f the
[_]	Tru	ck	1
		lcar	
		ge, Vessel	
		eline	
		ne	
	Othe	er (specify)	6
2.16 <u>CBI</u>	of e	tomer Use Estimate the quantity of the listed substance used by your custorepared by your customers during the reporting year for use under each cate and use listed (i-iv).  NIA - ARTICLE PROCESSOR.	omers gory
	i.	Industrial Products	
		Chemical or mixture	kg/yr
		Article	kg/yr
	ii.	Commercial Products	
		Chemical or mixture	kg/yr
		Article	kg/yr
	iii.		
		Chemical or mixture	kg/yr
		Article	
	iv.	Other	kg/yr
		Distribution (excluding export)	kg/yr
		Export	
		Quantity of substance consumed as reactant	
		Unknown customer uses	kg/yr
			-
<u>_</u> ] ;	Mark	(X) this box if you attach a continuation sheet.	

2.17 CBI	State the quantity of the listed substance that you exported during the reporting year. $N/A$					
[_]	In bulk					
	As a mixture					
	In articles					

## SECTION 3 PROCESSOR RAW MATERIAL IDENTIFICATION

PART	A GENERAL DATA					
3.01 <u>CBI</u> [_]	Specify the quantity purchased and the average price paid for the listed substance for each major source of supply listed. Product trades are treated as purchases. The average price is the market value of the product that was traded for the listed substance.					
,	Source of Supply	Quantity (kg)	Average Price (\$/kg)			
	The listed substance was manufactured on-site.	O				
	The listed substance was transferred from a different company site.					
	The listed substance was purchased directly from a manufacturer or importer.	6				
	The listed substance was purchased from a distributor or repackager.					
	The listed substance was purchased from a mixture producer. (data for mixture).  Total purchase history - no actual purchase duri	44*	\$1.90			
*	Total purchase history - no actual purchase duri	na neportina	Vear			
3.02 CBI [_]]	Circle all applicable modes of transportation used to your facility.  Truck	deliver the list	ed substance to			
<u></u> 1	Mark (X) this box if you attach a continuation sheet.					

3.03 CBI	a.	Circle all applicable containers used to transport the listed substance to you facility.	r
		Bags	. 1
		Boxes	
		Free standing tank cylinders	_
		Tank rail cars	
		Hopper cars	
		Tank trucks	
		Hopper trucks	
		Drums	
		Pipeline	
		Other (specify) (BNS	_
	b.	If the listed substance is transported in pressurized tank cylinders, tank rail cars, or tank trucks, state the pressure of the tanks.	l
	4	March 2017 1	nHg
		Tank rail cars mm	пHg
		Tank trucks mn	nHg
		(Y) this box if you attach a continuation short	

average percent compos	If you obtain the listed substance in the form of a mixture, list the trade name(s) of the mixture, the name of its supplier(s) or manufacturer(s), an estimate of the average percent composition by weight of the listed substance in the mixture, and the amount of mixture processed during the reporting year.						
Trade Name	Supplier or Manufacturer	Average % Composition by Weight (specify ± % precision)	Amount Processed (kg/yr)				
EN-9 OZR PART	A CONAP INC.	15 *	3.3_				
		* PRECISION UNKNOW	2				
		DATA TAKEN FRO	M				
?		MATERIAL SAFETY					
		DATA SHEET					
		·					
		,					

the percent composition, by	f a class T chemical, clas weight, of the listed subs	aw material during the s II chemical, or polymer, tance.
Class I chemical	Quantity Used (kg/yr) 3.3	% Composition b Weight of Listed S stance in Raw Mater (specify ± % precis
-Tradename mixture containing Class I listed substance		
Class II chemical		
Polymer		
* Precision Unknown		
		·

SECTION 4	PHYSICAL	/CHEMICAL	PROPERTIES
-----------	----------	-----------	------------

General	l Inst	ruct	ions:
---------	--------	------	-------

If you are reporting on a mixture as defined in the glossary, reply to questions in Section 4 that are inappropriate to mixtures by stating "NA -- mixture."

For questions 4.06-4.15, if you possess any hazard warning statement, label, MSDS, or other

PART	A PHYSICAL/CHEMICAL DA	TA SUMMARY		
4.01 CBI	substance as it is man substance in the final import the substance,	rity for the three major ufactured, imported, or product form for manufa or at the point you begi	processed. Measure the cturing activities. at	purity of the the time you
	MIA MIXTURE	Manufacture	Import	Process
	Technical grade #1	% purity	% purity	% purit
	Technical grade #2	% purity	% purity	% purit
.02		tity of listed substance	manufactured, imported	or processed.
.02	1 Major = Greatest quant Submit your most recent substance, and for ever an MSDS that you develor version. Indicate when		manufactured, imported ety Data Sheet (MSDS) f the listed substance.	or processed.  or the listed  If you posses e. submit your
.02	Major = Greatest quant Submit your most recent substance, and for ever an MSDS that you develor version. Indicate whet appropriate response.	tity of listed substance tly updated Material Safe ry formulation containing oped and an MSDS develope ther at least one MSDS ha	manufactured, imported ety Data Sheet (MSDS) f g the listed substance. ed by a different source as been submitted by ci	or processed.  or the listed  If you posses e, submit your rcling the
.02	Major = Greatest quant  Submit your most recent substance, and for ever an MSDS that you develor version. Indicate when appropriate response.  Yes	tity of listed substance tly updated Material Safe ry formulation containing	manufactured, imported ety Data Sheet (MSDS) f g the listed substance. ed by a different source as been submitted by ci	or processed.  or the listed    If you posses e, submit your rcling the
.02	1 Major = Greatest quant Submit your most recent substance, and for ever an MSDS that you develor version. Indicate whet appropriate response. Yes	tity of listed substance tly updated Material Safe try formulation containing oped and an MSDS develope ther at least one MSDS ha	manufactured, imported ety Data Sheet (MSDS) f g the listed substance. ed by a different source as been submitted by ci	or processed.  or the listed   If you posses e, submit your rcling the
.02	1 Major = Greatest quant Submit your most recent substance, and for ever an MSDS that you develor version. Indicate when appropriate response. Yes	tity of listed substance tly updated Material Safe ry formulation containing oped and an MSDS develope ther at least one MSDS ha	manufactured, imported ety Data Sheet (MSDS) f g the listed substance. ed by a different source as been submitted by ci	or processed.  or the listed   If you posses e, submit your rcling the

<u>CBI</u>	storage,	disposal and transport  - PROCESSOR						
	Physical State		Manufacture	Import	Process	Store	Dispose	Transport
	Dust	<1 micron						
		1 to <5 microns						
		5 to <10 microns						
	Powder	<1 micron						
		1 to <5 microns						
		5 to <10 microns						
	Fiber	<1 micron						
		1 to <5 microns		-				
		5 to <10 microns						
	Aerosol	<1 micron						
		1 to <5 microns						
		5 to <10 microns						

4.03	Submit a copy or reasonable facsimile of any hazard information (other than an MSDS) that is provided to your customers/users regarding the listed substance or any formulation containing the listed substance. Indicate whether this information has been submitted by circling the appropriate response.				
	Yes 1				
	No				
4.04	For each activity that uses the listed substance, circle all the applicable number(s) corresponding to each physical state of the listed substance during the activity listed. Physical states for importing and processing activities are determined at				
CBI	the time you import or begin to process the listed substance. Physical states for manufacturing, storage, disposal and transport activities are determined using the final state of the product.				

		Phy	sical State		
Activity	Solid	Slurry	Liquid	Liquified Gas	Gas
Manufacture	1	2	3	4	5
Import	1	2	3	4	5
Process	1	2	3	4	5
Store	1	2	3	4	5
Dispose	1	2	3	4	5
Transport	1	2	3	4	5

•			
---	--	--	--

4.08	Indicate the flammable limits in air (% by volume) for the listed substance at standard temperature and pressure.						
	Lower limit	•					
	Upper limit	-^ 7					
	Indicate if hazard information/MSDS has been submitted in lieu of response by circling the appropriate response.	-					
	Yes	1					
	No	2					
	<b>.</b>						
	$\dot{\cdot}$						

[\_] Mark (X) this box if you attach a continuation sheet.

4.06	For each physical state of the listed substance, specify the corresponding flashpoint, and the test method used to derive the flashpoint value.	-
	Solid	
	Flashpoint	٥٥
	Test method	•
	Liquid	
	Flashpoint	•0
	Test method	
	Gas/Vapor	
•	Flashpoint	°C
	Test method	
	Indicate if hazard information/MSDS has been submitted in lieu of response by circling the appropriate response.	
	Yes	1
	No	2
4.07	Indicate the temperature at which the listed substance undergoes autopolymerization or autodecomposition.	 1
	Autopolymerizes at	•0
	Autodecomposes at	•C
	Indicate if hazard information/MSDS has been submitted in lieu of response by circling the appropriate response.	
	Yes	1
	No	2

4.10	Special Firefighting Procedures Idefirefighting procedures used to comba contains the listed substance. (Refer NA and UK.)	t fires cau	ised by	each ni	roduct t	voe whi	ch
		Product T	ypes Co	ontainir	ng the L	isted S	Substance
٠.	Special Firefighting Procedures	_1_	2	3	4	5	6
	Do not use water						
	Do not increase air pressure						
	Other (specify)			-			
	Indicate if hazard information/Miresponse by circling the appropriate	SDS has bee iate respon	n submi	itted in	n lieu o	f	
	Yes	• • • • • • • • • •	• • • • • •	• • • • • •			:
	No	• • • • • • • • • • •	•••••	• • • • • •	• • • • • •		
•	Product Type No.  1	der each co			the fol		table:
	2	<del></del>			•		
	3	<del></del>					
	4	***************************************					
	5						
	6						
						•	
	,						
	Mark (X) this box if you attach a cont	inuation s	heet.	-			

Extinguishing Media  1 2 3 4 5  Water  Foam  CO2  Dry chemical (e.g., sodium bicarbonate)  Halogenated hydrocarbon (e.g., carbon tetrachloride, methyl bromide)  Other (specify)  Indicate if hazard information/MSDS has been submitted in lieu of response by circling the appropriate response.  Yes		Product '	Types C	ontainin	g the L	isted	Sut
Vater  Foam  CO,  Dry chemical (e.g., sodium bicarbonate)  Halogenated hydrocarbon (e.g., carbon tetrachloride, methyl bromide)  Other (specify)  Indicate if hazard information/MSDS has been submitted in lieu of response by circling the appropriate response.  Yes	Extinguishing Media						
Dry chemical (e.g., sodium bicarbonate)  Halogenated hydrocarbon (e.g., carbon tetrachloride, methyl bromide)  Other (specify)  Indicate if hazard information/MSDS has been submitted in lieu of response by circling the appropriate response.  Yes	Water						
Dry chemical (e.g., sodium bicarbonate)  Halogenated hydrocarbon (e.g., carbon tetrachloride, methyl bromide)  Other (specify)  Indicate if hazard information/MSDS has been submitted in lieu of response by circling the appropriate response.  Yes	Foam						
Dry chemical (e.g., sodium bicarbonate)  Halogenated hydrocarbon (e.g., carbon tetrachloride, methyl bromide)  Other (specify)  Indicate if hazard information/MSDS has been submitted in lieu of response by circling the appropriate response.  Yes	co <sub>2</sub>						
Halogenated hydrocarbon (e.g., carbon tetrachloride, methyl bromide)  Other (specify)  Indicate if hazard information/MSDS has been submitted in lieu of response by circling the appropriate response.  Yes	Dry chemical (e.g., sodium bicarbonate)						
Other (specify)  Indicate if hazard information/MSDS has been submitted in lieu of response by circling the appropriate response.  Yes	Halogenated hydrocarbon (e.g., carbon tetrachloride, methyl bromide)						
Yes  No  Identify the product types listed under each column (1-6) in the following ta Product Type No.  Product Type No.  Product Type Identity  1  2  3  4  5	Other (specify)					· ——	-
No	Indicate if hazard information/MSD response by circling the appropria	S has bee te respon	n submi	tted in	lieu of	<del></del>	-
Identify the product types listed under each column (1-6) in the following ta Product Type No.  Product Type No.  Product Type Identity  2  3  4  5							
Identify the product types listed under each column (1-6) in the following ta  Product Type No.  Product Type Identity  2  3  4  5							
3 4 5	Identify the product types listed under						
5	Identify the product types listed under		.umn (1	 -6) in t	he foll	owing	
5	Identify the product types listed under Product Type No.		.umn (1	 -6) in t	he foll	owing	
	Identify the product types listed under Product Type No.  1 2		.umn (1	 -6) in t	he foll	owing	
6	Identify the product types listed under Product Type No.  1 2 3		.umn (1	 -6) in t	he foll	owing	
	Identify the product types listed under Product Type No.  1 2 3		.umn (1	 -6) in t	he foll	owing	
	Identify the product types listed under Product Type No.  1 2 3 4 5		.umn (1	 -6) in t	he foll	owing	
	Identify the product types listed under Product Type No.  1 2 3 4 5		.umn (1	 -6) in t	he foll	owing	
	Identify the product types listed under Product Type No.  1 2 3 4 5		.umn (1	 -6) in t	he foll	owing	
	Identify the product types listed under Product Type No.  1 2 3 4 5		.umn (1	 -6) in t	he foll	owing	

4.13	Indicate the autoignition temper used to derive this value.	erature for the listed substance and the test method	
	Autoignition temperature	••••••	• C
•		tion/MSDS has been submitted in lieu of	
	Yes	***************************************	1
	No	••••••	2
4.14	vapor problems, such as peroxid	ing the listed substance in a cargo tank causes e formation, reaction with moisture, etc., specify ols or restrictions used to remedy each problem.	-
	Vapor Problem	Controls/Restrictions	
	Peroxide formation		
	Reaction with moisture		
	Combustion		
	Other (specify)		
	Indicate if hazard informa response by circling the a	tion/MSDS has been submitted in lieu of ppropriate response.	
	Yes	•••••••••••••••••••••••••••••••••••••••	1
	No	,	2
	· :		
[_]	dark (X) this box if you attach	a continuation sheet.	

4.11	Incompatibility List all chemicals, materials, or categories of chemicals or materials that you know are incompatible with the listed substance and the reason which they are incompatible. (Refer to the instructions for further explanation and an example.)						
	CAS No.	Name	Reacti	(specify)			
	Indicate if hazard infor response by circling the	mation/MSDS has been appropriate respons	submitted in lieu	ı of			
	Yes	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •				
	No	•••••••	• • • • • • • • • • • • • • • • • • • •	2			
4.12	Autoxidation Is the listed substance capable of autoxidation? Circle the appropriate response.						
	Yes	• • • • • • • • • • • • • • • • • • • •					
	No			2			
	Unknown						
	Indicate if hazard information/MSDS has been submitted in lieu of response by circling the appropriate response.						
	Yes	••••••	• • • • • • • • • • • • • • • • • • • •	1			
	No	••••••	••••••	2			
		·					
	Mark (X) this box if you attac	h a continuation she	et.				

•			
Additive	Inhibitor or Stabilizer <sup>1</sup>	Amount Normally Added (ppm or X)	Duration of Effectiveness (specify units)
zard informati reling the app	on/MSDS has been sub ropriate response.	omitted in lieu	of
••••••			
	zard informati rcling the app	zard information/MSDS has been subrcling the appropriate response.	Inhibitor Normally or Added (ppm or Z)  Zard information/MSDS has been submitted in lieu

I = Inhibitor
S = Stabilizer

5.02	a.	t v the local transfer of the local transfer								
		INFORMATION NOT EURILABLE								
		<u>Media</u>		Half-life (speci	fy units)	-				
		Groundwater								
		Atmosphere								
		Surface water  Soil  Identify the listed substance's known transformation products that have a half-life greater than 24 hours.								
	b.									
		ENFORMATION NOT AVAI	Name	Half-life		Walla				
		-	<del></del>	(specify units)		<u>Media</u>				
	1									
					in					
5.03	Specify the octanol-water partition coefficient, K <sub>ow</sub> at 25°									
	Met	ethod of calculation or determination								
	L'1	FORMATTEN NOT AVAILABLE	<u> </u>							
5.04	Spe	eify the soil-water partition	coefficient,	K <sub>a</sub>		at 25°C				
		Soil type								
	INI	NFORMATUN NOT PURILABLE								
5.05	Spec	ify the organic carbon-water ficient, K <sub>oc</sub>	partition			at 25°C				
	サット	TRUATION NOT AUGI	LABLE							
5.06	Spec	ify the Henry's Law Constant,	H			atm-m³/mole				
	æ~F	ormation not AURIC	ABLE							
[_]	Mark	(X) this box if you attach a	continuation	sheet.						

Inc	dicate the rate constants for the following transfo	rmation processes.	
a.	Photolysis: Information Community & Community		
	Absorption spectrum coefficient (peak)	(1/M cm) at	1
	Reaction quantum yield, &	at	
	Direct photolysis rate constant, k <sub>p</sub> , at	1/hr	_ lat
ъ.	Oxidation constants at 25°C: To Foliage and Ma	- AUAGEASLE	
	For 10 <sub>2</sub> (singlet oxygen), k <sub>ox</sub>		:
	Five-day biochemical oxygen demand, BOD <sub>5</sub> : N/Ava		1
c.	Five-day biochemical oxygen demand, BOD <sub>5</sub> : N/Ava	lable	n
d.	Biotransformation rate constant: 2000 Ring Tion	OUT AVALLABLE	
	For bacterial transformation in water, k <sub>b</sub>		1
	Specify culture		
e.	Hydrolysis rate constants: INFORMATION N.	- AURICABLE	
	For base-promoted process, k <sub>B</sub>		1
	For acid-promoted process, k,		1
	For neutral process, k <sub>N</sub>		1
f.	Chemical reduction rate (specify conditions)	COMPTON PUR	
	THE LABLE	-	
g.	Other (such as spontaneous degradation)	SO MATERIA AL ATTENTION	er fransk

	SECTION 6 ECONOMIC AND FINANCIAL INFORMATION	
6.01	Company Type Circle the number which most appropriately descr	ibes your company.
<u>CBI</u>	Corporation	
	Partnership	
	Other (specify)	
6.02 CBI	At the end of the reporting year, were you constructing addition site that were not yet in operation at the end of the reporting now being used or will be used in the future for manufacturing, processing the listed substance? Circle the appropriate respons	year, but which are importing, or
<u> </u>	Yes	1
'—'	No	
6.03 CBI	List all of the product types that you manufacture that contain as a raw material, and the percentage of the name-plate capacity listed substance that each product type represents. The total opercentiles should equal 100 percent. State the total name-plate process type(s) used to manufacture all product types that contastibutions.	y dedicated to the of all capacity te capacity of the
[_]		% Total
	Product Type	Capacity
	State the total name-plate capacity of the process type(s) used product types that contain the listed substance:	to manufacture all kg/yr
(_)	Mark (X) this box if you attach a continuation sheet.	

ioconcentration Factor Species Te		<u>Test<sup>1</sup></u>
<sup>1</sup> Use the following codes	to designate the type of test:	
<pre>F = Flowthrough S = Static</pre>		
•		
	•	
	•	

6.06 <u>CBI</u> []	processing the listed substance during the reporting year. (For an explanation these costs, refer to the instructions.)	of
·,	Average Total Costs	
	Manufacturing	\$/kg
	Importing	\$/kg
	Processing	
	Average Variable Costs	
	Manufacturing	\$/kg
	Importing	\$/kg
,	Processing	\$/kg
6.07	State your average purchase price of the listed substance, if purchased as a raw material during the reporting year.	
CBI		
[_]	Average purchase price	\$/kg
6.08 CBI	State your company's total sales and sales of the listed substance sold in bulk the reporting year.	ior
[_]	Year ending [_]_] [] [	[]] ear
	Company's total sales (\$)	
	Sales of listed substance (\$)	
	Mark (X) this box if you attach a continuation sheet.	

	Market	Quantity Sold or Transferred (kg/yr)	Total Sales Value (\$/yr)
	Retail sales		
	Distribution Wholesalers		
	Distribution Retailers		<u> </u>
	Intra-company transfer		
	Repackagers		
	Mixture producers		
	Article producers		
	Other chemical manufacturers or processors		
	Exporters		
	Other (specify)		
	Substitutes List all known commerce for the listed substance and state the feasible substitute is one which is experience.	he cost of each substitute economically and technolog	<ul><li>e. A commercially gically feasible to</li></ul>
5	for the listed substance and state the feasible substitute is one which is a in your current operation, and which performance in its end uses.	he cost of each substitute economically and technolog	<ul><li>e. A commercially gically feasible to</li></ul>
	for the listed substance and state the feasible substitute is one which is a in your current operation, and which	he cost of each substitute economically and technolog	<ul><li>e. A commercially gically feasible to</li></ul>
	for the listed substance and state the feasible substitute is one which is a in your current operation, and which performance in its end uses.	he cost of each substitute economically and technolog	<ul> <li>e. A commercially gically feasible to ct with comparable</li> </ul>
	for the listed substance and state the feasible substitute is one which is a in your current operation, and which performance in its end uses.	he cost of each substitute economically and technolog	<ul> <li>e. A commercially gically feasible to ct with comparable</li> </ul>
	for the listed substance and state the feasible substitute is one which is a in your current operation, and which performance in its end uses.	he cost of each substitute economically and technolog	<ul> <li>e. A commercially gically feasible to ct with comparable</li> </ul>
	for the listed substance and state the feasible substitute is one which is a in your current operation, and which performance in its end uses.	he cost of each substitute economically and technolog	<ul> <li>e. A commercially gically feasible to ct with comparable</li> </ul>
	for the listed substance and state the feasible substitute is one which is a in your current operation, and which performance in its end uses.	he cost of each substitute economically and technolog	e. A commercially gically feasible to ct with comparable

## SECTION 7 MANUFACTURING AND PROCESSING INFORMATION

### General Instructions:

For questions 7.04-7.06, provide a separate response for each process block flow diagram provided in questions 7.01, 7.02, and 7.03. Identify the process type from which the information is extracted.

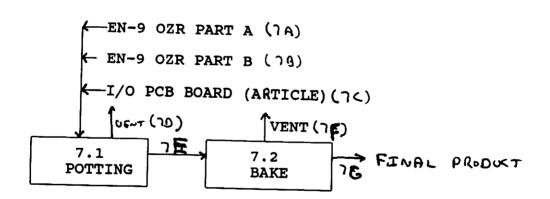
## PART A MANUFACTURING AND PROCESSING PROCESS TYPE DESCRIPTION

7.01 In accordance with the instructions, provide a process block flow diagram showing the major (greatest volume) process type involving the listed substance.

CBI

[\_] Process type .....

POTTING OF ITO CABLE ASEN



[ ] Mark (X) this box if you attach a continuation sheet.

6.09 <u>CBI</u> [_]	State your company's total sales and sales of the listed substance sold in bulk for the corporate fiscal year preceding the reporting year. (Refer to the instructions for question 6.08 for the methodology used to answer this question.)
	Year ending [_]_] [_]_] [_]_]
	Company's total sales (\$)
	Sales of listed substance (\$)
6.10 <u>CBI</u> [_]	State your company's total sales and sales of the listed substance sold in bulk for the 2 corporate fiscal years preceding the reporting year in descending order. (Refer to the instructions for question 6.08 for the methodology used to answer this question.)
	Year ending []] []] Mo. Year
	Company's total sales (\$)
	Sales of listed substance (\$)
	Year ending [_]_] [_]_] Mo. Year
	Company's total sales (\$)
	Sales of listed substance (\$)
· · · · · · · · · · · · · · · · · · ·	
[_]	Mark (X) this box if you attach a continuation sheet.

<u>BI</u>	Process type	_See	emission	detai	at 7.	01, p.4	2
	Process type	Process	emissions	<< 90 p	ver cenf	of faci	lity emission
							,

7.02	In accordance with the instructions, provide a separate process block flow diagram showing each of the three major (greatest volume) process types involving the liste substance.				
CBI	substance.				
[_]	Process type NIA				
[_]	Mark (X) this box if you attach a continuation sheet.				

BI 	Process type	Potting of I/o	Calle Assembly	,
_,	Process Stream ID	Process Stream	Cable 1420CA 017	Stream
	Code	Description	Physical State <sup>1</sup>	_Flow (kg/yr
	<u> </u>	EN-G OZR PARTA	<u> </u>	22
	<u>78</u>	En-d OSU by 12. 18.	<u>oL</u>	22
	76	Ilo be Botto	So	ARTICLE
	۵۲	TO =	۵c	ONKWOWN
	<u> </u>	CURED PULYURETHANE	So	UNKNEWN
	ା <i>€</i>	TOT	GC	UNKNOWN.
	_ንሬ	ILO CASLE ASSEMBLEY	So	ARTICLE
	<sup>1</sup> Use the foll	owing codes to designate the phys	sical state for each pr	ocess stream:
	GC = Gas (co GU = Gas (un SO = Solid SY = Sludge AL = Aqueous OL = Organic	ndensible at ambient temperature condensible at ambient temperatur or slurry liquid	and pressure) re and pressure)	

it ation	Polying of		/	
	Equipment Type	Operating Temperature Range (°C)	Operating Pressure Range (mm Hg)	Vessel Composition
POTT	enc Machene	AMBIENT	90 psig	Steer.
g _ Ou E	: N	125°C	AMBIENT	STEEL
<del></del>		***********		
	<del></del>			
		**************************************	<del></del> .	
		<del></del>		
			e-man-spendare de angelemande	

_1	Process ty	pe Potting	of 1/0	Cable As	sem bly
	a.	<b>b.</b>	c.	d.	/ e.
	Process Stream ID Code	Known Compounds <sup>1</sup>	Concen- trations <sup>2,3</sup> (% or ppm)	Other Expected Compounds	Estimated Concentrations (% or ppm)
	7 A	TOI	15 %	NIA	NIA
		URETHANE PREPOLYMERS	85%		
		N/A ·	NJA		
	<u>7B</u>	ETHO HEXADTOL	40-609.	MIA	NA
		ANILINE (HYDROXY PROPYL)	UNKNOWN		
		NIA	NIA		
	76	ARTICLE	NIA	<u> NIA</u>	NIe
		MIA			
			$\downarrow$	J	$\downarrow$

7.06 continued below

<b>K</b> I	Mark (X) this box if you attach a continuation sheet.	

7.06 CBI	If a proce this quest	ze each process stream is so block flow diagram is ion and complete it sepans for further explanati	provided for more rately for each property on and an example	re than one pro	10000 tuna
[_]	Process ty	$\sim$ $^{\prime}$	of I/o	Cable A:	ssem bly
	a.	<b>b.</b>	c.	d.	e.
	Process Stream ID Code	Known Compounds <sup>1</sup>	Concen- trations <sup>2,3</sup> (% or ppm)	Other Expected Compounds	Estimated Concentrations (% or ppm)
	<u>ar</u>	TDI	non-detectable	NA	NIA
		NIA -	NIA -		
	TE	CURED POLYURETHANE	<u>106</u>	NIA	NA I
	7.5	TDI	Non-delectable	NIA	NIA
		NIA	NIA		

7.06 continued below

7.06 (continued	d)	١
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<sup>1</sup>For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column b. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

Additive ckage Number	Components of Additive Package	Concentrations(% or ppm)
1	NA*	
	<u> </u>	
2		
3		
4		
5		
the following codes	to designate how the concentrati	on was determined:
Analytical result Engineering judgeme		

V = Volume W = Weight

\* Applies to all process streams

[\_] Mark (X) this box if you attach a continuation sheet.

.06 BI	If a proce this quest	ze each process stream is ss block flow diagram is ion and complete it sepa ns for further explanation	provided for mor	re than one prod	
_ _;		pe Potting		Cable A:	ssem bly
	<b>a.</b>	<b>b.</b>	c.	d.	ę.
	Process Stream ID Code	Known Compounds <sup>1</sup>	Concen- trations <sup>2,3</sup> (% or ppm)	Other Expected Compounds	Estimated Concentrations(% or ppm)
	76	ARTICLE	NIA	NIA	NIA
		NIA			
		•			
6 (	continued be	elov			
		•			
		•			

8.01	which descr	ibes the tre	atment pr	ocess use	d for resi	dual treatme duals identi	nt block fl fied in que	ow diagram stion 7.01
CBI		ROSTONAL						
[_]	Process type	e						***************************************
								•

SECTION 8	RESIDUAL	TREATMENT	GENERATION,	CHARACTERIZATION,	TRANSPORTATION.	AND
	MANAGEMEN		•	ŕ	•	

### General Instructions:

For questions 8.04-8.06, provide a separate response for each residual treatment block flow diagram provided in question 8.01, 8.02 or 8.03. Identify the process type from which the information is extracted.

For questions 8.05-8.33, the Stream Identification Codes are those process streams listed in either the Section 7 or Section 8 block flow diagrams which contain residuals for each applicable waste management method.

For questions 8.07-8.33, if residuals are combined before they are handled, list those Stream Identification Codes on the same line.

Questions 8.09-8.33 refer to the waste management activities involving the residuals identified in either the Section 7 or Section 8 block flow diagrams. Not all Stream Identification Codes used in the sample answers (e.g., for the incinerator questions) have corresponding process streams identified in the block flow diagram(s). These Stream Identification codes are for illustrative purposes only.

For questions 8.11-8.33, if you have provided the information requested on one of the EPA Office of Solid Waste surveys listed below within the three years prior to your reporting year, you may submit a copy or reasonable facsimile in lieu of answering those questions which the survey addresses. The applicable surveys are: (1) Hazardous Waste Treatment, Storage, Disposal, and Recycling Survey; (2) Hazardous Waste Generator Survey; or (3) Subtitle D Industrial Facility Mail Survey.

[_]	Mark (X)	this box	if you	attach	a	continuation sheet.	
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	In accordance with the which describe each of question 7.03.	instructions, the treatment	provide residual treatment block flow diagram(sprocesses used for residuals identified in
CBI			
[_]	Process type		
_			
		•	
	fark (X) this box if you	attach a cont	inuation sheet.

8.02	In accordance with the which describe each of	instructions, the treatment	provide residua processes used	al treatment b for residuals	lock flow diagram(s identified in
<u>CBI</u>	question 7.02.				
[_]	Process type				
			,		
[_]	Mark (X) this box if yo	u attach a con	tinuation sheet	•	

8.05 CBI	process	type, photo	residual trea ocopy this du	itment block f estion and co	in your residu low diagram is emplete it sepa er explanation	provided for	more than or
[_]	Process	type	OUAL TREAT	- MINT PROC	-6816 <b>.g</b> . 		ŕ
	a.	b.	c.	d.	e.	f.	g.
	Stream ID Code	Type of Hazardous Vaste	Physical State of Residual <sup>2</sup>	Known Compounds <sup>3</sup>	Concentra- tions (% or ppm) <sup>4,5,6</sup>	Other Expected Compounds	Estimated Concen- trations (% or ppm)
	·						
.05 d	continue						

Process type	
Unit Operation ID Number (as assigned in questions 8.01, 8.02, or 8.03)	Typical Equipment Type
•	

•	A.E.	(continued)	
ж.	(15	(CORTIBULATI	۱

For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column d. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

Additive Package Number	Components of Additive Package	Concentrations (% or ppm)
1		
<u> </u>		
- 3		
		·
4		
5		
<sup>4</sup> Use the following codes t	o designate how the concentrat:	ion was determined:
A = Analytical result E = Engineering judgement	/calculation	
.05 continued below		
	ttach a continuation sheet.	
	56	

## 8.05 (continued)

<sup>1</sup>Use the following codes to designate the type of hazardous waste:

I = Ignitable

C = Corrosive

R = Reactive

E = EP toxic

T = Toxic

H = Acutely hazardous

<sup>2</sup>Use the following codes to designate the physical state of the residual:

GC = Gas (condensible at ambient temperature and pressure)

GU = Gas (uncondensible at ambient temperature and pressure)

SO = Solid

SY = Sludge or slurry

AL = Aqueous liquid

OL = Organic liquid

IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene)

#### 8.05 continued below

ί

[ ] Mark (X) this box if you attach a continuation sheet.

[_]	Process	type	• • •				
	a.	ь.	c.	d.	e.	f.	g.
-	Stream ID Code	Vaste Description Code <sup>1</sup>	Management Method Code <sup>2</sup>	Residual Quantities (kg/yr)	Management of Residual (%) On-Site Off-Site	Costs for Off-Site Management (per kg)	Changes in Managemen Methods
	•						
							<del></del>
						***************************************	
			~				
		•					
-							
		-					
			· · · · · · · · · · · · · · · · · · ·				
		-					
1	Use the	codes provid	led in Exhib	it 8-1 to de it 8-2 to de	signate the waste of signate the management	escriptions ent methods	

8.05 (continu	ued )
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<sup>5</sup>Use the following codes to designate how the concentration was measured:

V = Volume

W = Weight

<sup>6</sup>Specify the analytical test methods used and their detection limits in the table below. Assign a code to each test method used and list those codes in column e.

Code	Method	Detection Limit (± ug/l)
1		
2		
_3		
4		
5		
6		

[\_] Mark (X) this box if you attach a continuation sheet.

## CONAPINC. 1405 Buffalo St. Olean, New York 14760 716/372-9650

MATERIAL SAFETY DATA SHEET ======== ========== Note: This form is to be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Blank spaces are not permitted. Trade Name Conathane EN-9 OZR Part A Date: 12/29/88 Chemical Name, common name: Complex Mixture; Polyurethane Prepolymer ======== II. HAZARDOUS INGREDIENTS ========= Chemical Names CAS No. % ACGIH(TLV) OSHA(PEL) Other Toluene 2,4 Diisocyanate 584-84-9 <15% .005ppm TWA .02ppm ND Material may present a dust hazard if cut, ground or machined after curing. Boiling Point ND !Specific Gravity (H2O=1) 1.06 Vapor Pressure, mm Hg ND !Vapor Density (air=1) ND Melting Pt./Range ND !Evaporation rate (Ether=1) ND Solubility in Water: REACTS! Physical State: LIQUID Percent volatile by volume:Negligible Appearance and Odor: Liquid; For TDI Sharp pungent (odor threshold greater than TLV) ========= IV. FIRE AND EXPLOSION DATA ========== Flash Point, F (Method): > 260 F PMCC Flammable Limits ND LEL ND UEL ND Extinguishing Materials: -XX-Water Spray -XX-Dry Chemical -XX-Carbon Dioxide -XX-Foam -ND-Other: Special Firefighting Procedures/Unusual Fire or Explosion Hazards: Full emergency equipment with self-contained breathing apparatus and full protective clothing should be worn by fire fighters. No skin surface should be exposed. During a fire TDI vapors and other irritating, highly toxic gases may be generated by thermal decomposition or combustion. At temperatures greater than 350 F TDI forms carbodiimides with the release of CO2 which can cause pressure build-up in closed containers. Explosive rupture is possible. Therefore, use cold water to cool fire-exposed containers. ======== V. HEALTH HAZARD INFORMATION ========== ACUTE TOXICITY (Routes of entry) Inhalation: LC50.(4 hr.): Range 16-50ppm for 1-4 hr (Rat) on TDI. TDI vapors or mist at concentrations above the TLV can irritate (burning sensation) the mucous membranes in the respiratory tract (nose, throat, lungs) causing runny nose, sore throat, coughing, chest discomfort, shortness of breath and

reduced lung function (breathing obstruction). Persons with a preexisting, nonspecific brombhlaí hyperactivity can respond to concentrations below the TLV with similar symptoms as well as asthma attack. Exposure well above the TLV may lead to bronchitis. bronchial spasm and pulmonary edema (fluid in the lungs). These effects are usually reversible. Chemical or hypersensitive pneumonitis, with flu-like symptoms (e.g. fever, chills), has also been reported. These symptoms can be delayed up to several hours after exposure.

Ingestion:

ORAL,LD50 > 5800 mg/kg (Rats). Can result in irritation and corrosive action in the mouth, stomach tissue and digestive tract. Symptoms can include sore throat. abdominal pain, nausea, vomiting and diarrhea.

Eye Contact:

Strongly irritating (Rabbits) OECD Guidelines. Liquid, aerosols or vapors are severely irritating and can cause pain, tearing, reddening and swelling. If left untreated, corneal damage can occur and injury is slow to heal. however, damage is usually reversible.

Skin Contact:

Skin sensitizer in guinea pigs. One study with guinea pigs reported that repeated skin contact with TDI caused respiratory sensitization. Isocyanates react with skin protein and moisture and can cause irritation which may include the following symptoms: reddening, swelling, rash, scaling or blistering. Cured material is difficult to remove.

Skin Absorption:

# CHRONIC TOXICITY

Carcinogenicity:

--X---NTP --X---IARC --X-Yes: ----Federal OSHA In a DRAFT of a lifetime bioassay, the National Toxicology Program reported that TDI caused an increase in the number of tumors in exposed rats over those counted in non-exposed rats. The TDI was administered by gavage where TDI was introduced into the stomach through a tube. In lifetime inhalation studies conducted by Hazelton Labs for the International Isocyanate Institute, TDI did NOT demonstrate carcinogenic activity in rats or mice.

Target Organ Affected:

No specific information available.

Effects of Overexposure:

Inhalation:

Inhalation of TDI vapors at concentrations above allowable limits can produce irritation of the mucous membranes in the respiratory tract resulting in running nose, sore throat, productive cough and a reduction in lung function (breathing obstruction). As a result of previous repeated overexposures or a single large dose, certain individuals may develop isocyanate sensitization (chemical asthma)

which will qause them to react to a later exposure to isocyanate at levels well below the TLV. Another type of response is hyperreactivity or hypersensitivity, in which persons, (as a result of a previous repeated overexposure or large single dose), can respond to small TDI concentrations at levels well below the .02ppm. Symptoms could be immediate or delayed and include chest tightness, wheezing, cough, shortness of breath or asthmatic attack. Hypersensitivity pneumonitis (with similar respiratory symptoms and fever which has been delayed) has also been reported. Similar to many non-specific asthmatic responses, there are reports that once sensitized an individual can experience these symptoms upon exposure to dust, cold air or other irritants. This increased lung sensitivity can persist for weeks and in severe cases for several years. Chronic overexposure to isocyanate has also been reported to cause lung damage (including decrease in lung function) which may be permanent. Sensitization can either be temporary or permanent.

Eyes:

Liquid, vapors or aerosols are severely irritating to the eyes and can cause tears. Prolonged vapor contact may cause conjunctivitis. Corneal injury can occur which can be slow to heal; however damage is usually reversible. Skin:

TDI reacts with skin protein and tissue moisture and can cause localized irritation as well as discoloration. Prolonged contact could produce reddening, swelling, or blistering and, in some individuals, skin sensitization resulting in dermatitis. Once sensitized a individual can develop recurring symptoms as a result of exposure to vapor.

Ingestion:

Ingestion could result in irritation and some corrosive action in the mouth, stomach tissue and digestive tract. Symptoms can include sore throat, abdominal pain, nausea, vomiting and diarrhea.

Medical Conditions Aggravated By Exposure Asthma, other respiratory disorders (bronchitis, emphysema, bronchial hyperreactivity), skin allergies, eczema.

FIRST AID: EMERGENCY PROCEDURES

Eye Contact:

Flush with clean, lukewarm water (low pressure) for at least 15 minutes, occasionally lifting eyelids, and obtain medical attention. Refer individual to an ophthalmologist for immediate follow-up.

Skin Contact:

Remove contaminated clothing. Wash effected areas thoroughly with soap or tincture of green soap and water. Wash contaminated clothing thoroughly before reuse. For severe exposures, get under safety shower, remove clothing under shower, get medical attention, and consult physician.

Inhalation:

Move to an area free from risk of further exposure. Administer oxygen or artificial respiration as needed. Obtain medical attention. Asthmatic-type symptoms may develop and be immediate or delayed up to several hours. Consult physician.

Ingested:

Do not induce vomiting. Give 12 fl. oz. of milk or water to drink. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Consult physician.

Recommendations to Physician:

Eyes: Stain for evidence of corneal injury. If cornea is burned, instill antibiotic steroid preparation frequently. Workplace vapors have produced reversible corneal epithelial edema impairing vision. This compound is a known skin sensitizer. Treat symptomatically as for contact dermatitis or thermal burns. There is no specific antidote for ingestion treat symptomatically. Inducing vomiting is contraindicated because of the irritating nature of this compound. TDI is a known pulmonary sensitizer. Treatment is essentially symptomatic. An individual having a skin or pulmonary sensitization reaction to this material should be removed from exposure to any isocyanate.

Stability: -XX-Stable -NA--Unstable Conditions to Avoid: Temperatures higher than recommended in product literature.

Incompatibility (materials to avoid):
Water, short chain alcohols, amines

Hazardous Decomposition Products

By heat and fire: carbon dioxide, carbon monoxide, oxides of nitrogen and traces of hydrogen cyanide, TDI. Hazardous Polymerization:NA-May Occur X-Will not occur Conditions to avoid:

====== VII. SPILL, LEAK AND DISPOSAL PROCEDURES ======= Steps to be taken if material is released or spilled: Consult section VIII for proper protective equipment. Cover the spill with sawdust, vermiculite, Fuller's earth or other absorbent material. Pour decontamination solution over the spill area and allow to react for at least 10 minutes. Collect the material in open top containers and add additional amounts of decontamination solution. Remove containers to a safe place, cover loosely, and allow to stand for 24 to 48 hours. Wash down spill area with decontamination solutions. Decontamination solutions: non-ionic surfactant Union Carbide's Tergitol TMN-10(20%) and water (80%); or concentrated ammonia (3-8%), detergent (2%), and water (90%). During spill clean-up, a self contained breathing apparatus or air line respirator and protective clothing must be worn. (See section VIII). Reportable Quantity CERCLA: 1001bs Waste Disposal Method:

Dispose according to any Local, State and Federal

A positive pressure air-supplied respirator is required whenever TDI concentrations exceed the Short-Term Exposure or Ceiling Limit of .02ppm or exceed the 8 hour Time Weighted Average TLV of 0.005 ppm. An air supplied respirator must also be worn during spray application, even if exhaust ventilation is used. For non-spray, short-term(less than 1 hour) situations where concentrations are near the TLV, a full face, air-purifying respirator equipped with organic cartridges or canisters can be used. However, TDI has poor warning properties since the odor at which TDI can be smelled is substantially higher than the 0.02 ppm. Therefore, proper fit and timely replacement of filter elements must be ensured. Observe OSHA regulations for respirator use. (29CFR 1910.134).

Local exhaust should be used to maintain levels below the TLV whenever TDI containing material is handled, processed, or spray-applied. At normal room temperatures (70 F) TDI levels quickly exceed the TLV unless properly ventilated. Standard reference sources regarding industrial ventilation (e.g., ACGIH INDUSTRIAL VENTILATION) should be consulted for guidance about adequate ventilation.

Protective Gloves: Chemical resistant gloves (butyl rubber, nitrile rubber, polyvinyl alcohol). However, please note that PVA degrades in water.

Eye Protection:

Liquid chemical goggles or full face shield should be worn. Contact lenses should not be worn. Other Protective Clothing or Equipment:Safety showers and eyewash stations should be available. Cover as much of exposed skin as possible with appropriate clothing. Work Practices, hygienic practices

Educate and train employees in safe use of product. Follow all label instructions.

Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination is suspect. Other Precautions:

Avoid contact with eyes and skin. Do not breathe the vapors.

TDI is on the Extremely Hazardous Substance.

Chemical Name	Section:	302	CERCLA	313
Toluene 2,4 Diisocyar	nate TPQ	-5 <b>00</b> LBS	RQ-100 LBS	YES

T.S.C.A. Status: On Inventory

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Name(print):George C. Karpin !This formulation is subject Signature: ) to change without notice. Title: Toxicological Coordinator! In case of accident use the Date of last revision12/29/88! phone number provided.

To the best of our knowledge, the information contained herein is accurate and meets all state and federal guidelines. However, CONAP INC. does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of the suitability of any material is the sole responsibility of the user.

Date approved //3 /89 Approved: Ill Mills
ND=Not Determined
NA=Not Applicable
//3/5/ Approved: A-Mills

## WASTE DESCRIPTION CODES

These waste description codes were developed specifically for this survey to supplement the descriptions listed with the RCRA and other waste codes. (These waste description codes are not regulatory definitions.)

# WASTE DESCRIPTION CODES FOR HAZARDOUS WASTE DESCRIBED BY A SINGLE RCRA F, K, P OR U WASTE CODE

A01	Spent	solvent	(F001-	F005.	K086)

A02 Other organic liquid (F001-F005, K086)

A03 Still bottom (F001-F005, K086)

A04 Other organic sludge (F001-F005, K086)

A05 Wastewater or aqueous mixture

A06. Contaminated soil or cleanup residue.

Other F or K waste, exactly as described

A08 Concentrated off-spec or discarded product

A09 Empty containers

A10 Incinerator ash

Solidified treatment residue **A11** 

A12 Other treatment residue (specify in 'Facility Notes'')

Other untreated waste (specify in "Facility Notes")

INORGANIC LIQUIDS—Waste that is primarily
Inorganic and highly fluid (e.g. aqueous), with
'ow suspended inorganic solids and low organic
content.

- B01 Aqueous waste with low solvents
- B02 Aqueous waste with low other toxic
- organics B03 Spent acid with metals
- **B04** Spent acid without metals
- 805 Acidic aqueous waste
- B06 Caustic solution with metals but no cvanides
- B07 Caustic solution with metals and cyanides
- 808 Caustic solution with cyanides but no metais
- 809 Spent causing
- B10 Caustic aqueous waste
- B11 Aqueous waste with reactive sulfidee
- B12 Aqueous waste with other reactives (e.g., explosives)
- B13. Other aqueous waste with high dissolved solids
- 914 Other aqueous waste with low dissolved SOHOS
- **B15 Scrubber water**
- 816 Leachaid
- 817 Waste liquid mercury
- B18 Other inorganic liquid (specify in "Facility Notes")

INORGANIC SLUDGES-Waste that is primarily inorganic, with moderate-to-high water content and low organic content; pumpable

- B19 Lime sludge without metals
- 820 Lime sludge with metals/metal hydroxide sludge
- 821 Wastewater treatment sludge with toxic organics
- B22 Other wastewater treatment sludge
- B23 Untreated plating sludge without cyanides
- B24 Untreated plating sludge with cyanides
- 825 Other sludge with cyanides
- 826 Sludge with reactive sulfides
- **B27** Sludge with other reactives
- 828 Degressing studge with metal scale or filings
- B29 Air pollution control device sludge (e.g., fly ash, wet scrubber sludge)
- 830 Sediment or lagoon dragout contaminated with organics
- B31 Sediment or lagoon dragout contaminated with inorganics only

**B32** Drilling mud

""Exactly as described" means that the waste matches the description of the RCRA waste code.

- Asbestos sturry or studge **B33**
- 834 Chloride or other being sludge **B35**
- Other inorganic studge (specify in 'Facility Notes')

INORGANIC SOLIDS—Waste that is primarily inorganic and solid, with low organic content and low-to-moderate water content; not pumpable.

- **B36** Soil contaminated with organics
- Soil contaminated with inorganics only **B37** 838 Ash, slag, or other residue from incineration of wastes
- **B39** Other "dry" ash, siag, or thermal residue
- 840 "Dry" lime or metal hydroxide solids chemically "fixed"
- **B41** "Dry" lime or metal hydroxide solids not
- "fixed" Metal scale, filings, or scrap 842
- **B43** Empty or crushed metal drums or con-
- Battenes or battery parts, casings, cores **B44 B45** Spent solid filters or adsorbents
- **B46** Aspestos solids and debns **B47** Metal-cyanide salts/chemicals
- Reactive cyanide satts/chemicals B49 Reactive sulfide salts/chemicals
- Other reactive saits/chemicals 851 Other metal salts/chemicals
- **B52** Other waste inorganic chemicals 853 Lab packs of old chemicals only
- **B54** Lab packs of debns only **B55**
- Mixed lab packs 856 Other inorganic solids (specify in
- "Facility Notes")

INORGANIC GASES—Waste that is primarily inorganic with a low organic content and is a gas at atmospheric pressure.

**B57** Inorganic gases

ORGANIC LIQUIDS-Waste that is primarily organic and is highly fluid, with low inorganic solids content and low-to-moderate water content.

- 858 Concentrated solvent-water solution 859 Halogenated (e.g., chlorinated) solvent
- Nonhalogenated solvent

- Halogenated/nonhalogenated solvent mixture
- B62 Oil-water omulsion or mixture
- B63 Waste oil
  - Concentrated aqueous solution of other OFGANICS
- Concentrated phenolics
- Organic paint, ink, lacquer, or varnish
- 867 Adhesives or expoxies
- 868 Paint thinner or petroleum distillates
- **B**69 Reactive or polymerizable organic liquid
- Other organic liquid (specify in "Facility Notes")

ORGANIC SLUDGES—Waste that is primarily organic, with low-to-moderate inorganic solids content and water content; pumpable

- Still bottoms of halogenated (e.g., chiorinated) solvents or other organic liquids
- 872 Still bottoms of nonhalogenated solvents or other organic liquids
- 873 Oily sludge
- 874 Organic paint or ink sludge
- 875 Reactive or polymerizable organics
- 876 Resins, tars, or tarry sludge
- 877 Biological treatment slugge
- Sewage or other untreated biological siuage
- 379 Other organic sludge (specify in 'Facility Notes'')

ORGANIC SOLIDS—Waste that is primarily organic and solid, with low-to-moderate inorganic content and water content; not pumpable.

- 880 Halogenated pesticide solid
- 881 Nonhalogenated pesticide solid 882 Solid resins or polymenzed organics
- B&3 Specification
- RAA Reactive organic solid
- BAS Empty fiber or plastic containers
- 886 Lab packs of old chemicals only
- 857 Lab packs of debns only
- 888 Mixed lab packs
- 889 Other halogenated organic solid
- **B90** Other nonhalogenated organic solid

ORGANIC GASES—Waste that is primarily organic with low-to-moderate inorganic content and is a gas at atmospheric pressure.

B91 Organic gases

# EXHIBIT 8-2. (Refers to question 8.06(c))

# MANAGEMENT METHODS

<pre>M1 = Discharge to publicly owned</pre>	Recovery of solvents and liquid organics
vastevater treatment works	for reuse
M2 = Discharge to surface water under	1SR Fractionation
NPDES	2SR Batch still distillation
<pre>M3 = Discharge to off-site, privately</pre>	3SR Solvent extraction
owned wastewater treatment works	4SR Thin-film evaporation
.M4 = Scrubber: a) caustic; b) water;	5SR Filtration
c) other	
M5 = Vent to: a) atmosphere; b) flare	6SR Phase separation
c) other (specify)	
M6 = Other (specify)	8SR Other solvent recovery
no a other (specify)	Page 1 - 4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
TREATMENT AND RECYCLING	Recovery of metals
The state of the s	1MR Activated carbon (for metals
Incineration/thermal treatment	recovery)
II Liquid injection	2MR Electrodialysis (for metals
27 Second on marking hill	recovery)
2I Rotary or rocking kiln	3MR Electrolytic metal recovery
3I Rotary kiln with a liquid injection	
unit	5MR Reverse osmosis (for metals
4I Two stage	recovery)
5I Fixed hearth	6MR Solvent extraction (for metals
6I Multiple hearth	recovery)
7I Fluidized bed	7MR Ultrafiltration (for metals
8I Infrared 9I Fume/vapor	recovery)
9I Fume/vapor	8MR Other metals recovery
10I Pyrolytic destructor	
11I Other incineration/thermal	Vastevater Treatment
treatment	After each wastewater treatment type
	listed below (1WT - 66WT) specify
Reuse as fuel	a) tank; or b) surface impoundment
1RF Cement kiln	
	(i.e., 63WTa)
2RF Aggregate kiln 3RF Asphalt kiln	(i.e., 63WTa)
1RF Cement kiln 2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln	(i.e., 63WTa) Equalization
2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln	(i.e., 63WTa)
2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace	(i.e., 63WTa)  Equalization  1WT Equalization
2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace	(i.e., 63WTa)  Equalization  1WT Equalization  Cyanide oxidation
2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining	(i.e., 63WTa)  Equalization  1WT Equalization  Cyanide oxidation  2WT Alkaline chlorination
2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace	(i.e., 63WTa)  Equalization  1WT Equalization  Cyanide oxidation  2WT Alkaline chlorination  3WT Ozone
2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven	(i.e., 63WTa)  Equalization  1WT Equalization  Cyanide oxidation  2WT Alkaline chlorination  3WT Ozone  4WT Electrochemical
2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven 9RF Other industrial furnace	(i.e., 63WTa)  Equalization  1WT Equalization  Cyanide oxidation  2WT Alkaline chlorination  3WT Ozone
2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven 9RF Other industrial furnace 10RF Industrial boiler	(i.e., 63WTa)  Equalization  1WT Equalization  Cyanide oxidation  2WT Alkaline chlorination  3WT Ozone  4WT Electrochemical  5WT Other cyanide oxidation
2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven 9RF Other industrial furnace 10RF Industrial boiler 11RF Utility boiler	(i.e., 63WTa)  Equalization  1WT Equalization  Cyanide oxidation  2WT Alkaline chlorination  3WT Ozone  4WT Electrochemical  5WT Other cyanide oxidation  General oxidation (including
2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven 9RF Other industrial furnace 10RF Industrial boiler 11RF Utility boiler 12RF Process heater	(i.e., 63WTa)  Equalization  1WT Equalization  Cyanide oxidation  2WT Alkaline chlorination  3WT Ozone  4WT Electrochemical  5WT Other cyanide oxidation  General oxidation (including disinfection)
2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven 9RF Other industrial furnace 10RF Industrial boiler 11RF Utility boiler	(i.e., 63WTa)  Equalization  1WT Equalization  Cyanide oxidation  2WT Alkaline chlorination  3WT Ozone  4WT Electrochemical  5WT Other cyanide oxidation  General oxidation (including disinfection)  6WT Chlorination
2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven 9RF Other industrial furnace 10RF Industrial boiler 11RF Utility boiler 12RF Process heater 13RF Other reuse as fuel unit	(i.e., 63WTa)  Equalization  1WT Equalization  Cyanide oxidation  2WT Alkaline chlorination  3WT Ozone  4WT Electrochemical  5WT Other cyanide oxidation  General oxidation (including disinfection)  6WT Chlorination  7WT Ozonation
2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven 9RF Other industrial furnace 10RF Industrial boiler 11RF Utility boiler 12RF Process heater 13RF Other reuse as fuel unit Fuel Blending	(i.e., 63WTa)  Equalization  1WT Equalization  Cyanide oxidation  2WT Alkaline chlorination  3WT Ozone  4WT Electrochemical  5WT Other cyanide oxidation  General oxidation (including disinfection)  6WT Chlorination  7WT Ozonation  8WT UV radiation
2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven 9RF Other industrial furnace 10RF Industrial boiler 11RF Utility boiler 12RF Process heater 13RF Other reuse as fuel unit	(i.e., 63WTa)  Equalization  1WT Equalization  Cyanide oxidation  2WT Alkaline chlorination  3WT Ozone  4WT Electrochemical  5WT Other cyanide oxidation  General oxidation (including disinfection)  6WT Chlorination  7WT Ozonation
2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven 9RF Other industrial furnace 10RF Industrial boiler 11RF Utility boiler 12RF Process heater 13RF Other reuse as fuel unit  Puel Blending 1FB Fuel blending	(i.e., 63WTa)  Equalization  1WT Equalization  Cyanide oxidation  2WT Alkaline chlorination  3WT Ozone  4WT Electrochemical  5WT Other cyanide oxidation  General oxidation (including disinfection)  6WT Chlorination  7WT Ozonation  8WT UV radiation  9WT Other general oxidation
2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven 9RF Other industrial furnace 10RF Industrial boiler 11RF Utility boiler 12RF Process heater 13RF Other reuse as fuel unit  Puel Blending 1FB Fuel blending  Solidification	(i.e., 63WTa)  Equalization  1WT Equalization  Cyanide oxidation  2WT Alkaline chlorination  3WT Ozone  4WT Electrochemical  5WT Other cyanide oxidation  General oxidation (including disinfection)  6WT Chlorination  7WT Ozonation  8WT UV radiation  9WT Other general oxidation  Chemical precipitation
2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven 9RF Other industrial furnace 10RF Industrial boiler 11RF Utility boiler 12RF Process heater 13RF Other reuse as fuel unit  Puel Blending 1FB Fuel blending  Solidification 1S Cement or cement/silicate processes	(i.e., 63WTa)  Equalization 1WT Equalization  Cyanide oxidation 2WT Alkaline chlorination 3WT Ozone 4WT Electrochemical 5WT Other cyanide oxidation  General oxidation (including disinfection) 6WT Chlorination 7WT Ozonation 8WT UV radiation 9WT Other general oxidation  Chemical precipitation 10WT Lime
2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven 9RF Other industrial furnace 10RF Industrial boiler 11RF Utility boiler 12RF Process heater 13RF Other reuse as fuel unit  Puel Blending 1FB Fuel blending  Solidification 1S Cement or cement/silicate processe 2S Pozzolanic processes	(i.e., 63WTa)  Equalization 1WT Equalization  Cyanide oxidation 2WT Alkaline chlorination 3WT Ozone 4WT Electrochemical 5WT Other cyanide oxidation  General oxidation (including disinfection) 6WT Chlorination 7WT Ozonation 8WT UV radiation 9WT other general oxidation  Chemical precipitation 10WT Lime 11WT Sodium hydroxide
2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven 9RF Other industrial furnace 10RF Industrial boiler 11RF Utility boiler 12RF Process heater 13RF Other reuse as fuel unit  Puel Blending 1FB Fuel blending  Solidification 1S Cement or cement/silicate processe 2S Pozzolanic processes 3S Asphaltic processes	(i.e., 63WTa)  Equalization 1WT Equalization  Cyanide oxidation 2WT Alkaline chlorination 3WT Ozone 4WT Electrochemical 5WT Other cyanide oxidation  General oxidation (including disinfection) 6WT Chlorination 7WT Ozonation 8WT UV radiation 9WT Other general oxidation  Chemical precipitation 10WT Lime 11WT Sodium hydroxide 12WT Soda ash
2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven 9RF Other industrial furnace 10RF Industrial boiler 11RF Utility boiler 12RF Process heater 13RF Other reuse as fuel unit  Fuel Blending 1FB Fuel blending  Solidification 1S Cement or cement/silicate processe 2S Pozzolanic processes 3S Asphaltic processes 4S Thermoplastic techniques	(i.e., 63WTa)  Equalization 1WT Equalization  Cyanide oxidation 2WT Alkaline chlorination 3WT Ozone 4WT Electrochemical 5WT Other cyanide oxidation  General oxidation (including disinfection) 6WT Chlorination 7WT Ozonation 8WT UV radiation 9WT Other general oxidation  Chemical precipitation 10WT Lime 11WT Sodium hydroxide 12WT Soda ash 13WT Sulfide
2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven 9RF Other industrial furnace 10RF Industrial boiler 11RF Utility boiler 12RF Process heater 13RF Other reuse as fuel unit  Puel Blending 1FB Fuel blending  Solidification 1S Cement or cement/silicate processe 2S Pozzolanic processes 3S Asphaltic processes 4S Thermoplastic techniques 5S Organic polymer techniques	(i.e., 63WTa)  Equalization 1WT Equalization  Cyanide oxidation 2WT Alkaline chlorination 3WT Ozone 4WT Electrochemical 5WT Other cyanide oxidation  General oxidation (including disinfection) 6WT Chlorination 7WT Ozonation 8WT UV radiation 9WT Other general oxidation  Chemical precipitation 10WT Lime 11WT Sodium hydroxide 12WT Soda ash 13WT Sulfide
2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven 9RF Other industrial furnace 10RF Industrial boiler 11RF Utility boiler 12RF Process heater 13RF Other reuse as fuel unit  Puel Blending 1FB Fuel blending  Solidification 1S Cement or cement/silicate processe 2S Pozzolanic processes 3S Asphaltic processes 4S Thermoplastic techniques 5S Organic polymer techniques 6S Jacketing (macro-encapsulation)	(i.e., 63WTa)  Equalization 1WT Equalization  Cyanide oxidation 2WT Alkaline chlorination 3WT Ozone 4WT Electrochemical 5WT Other cyanide oxidation  General oxidation (including disinfection) 6WT Chlorination 7WT Ozonation 8WT UV radiation 9WT Other general oxidation  Chemical precipitation 10WT Lime 11WT Sodium hydroxide 12WT Soda ash
2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven 9RF Other industrial furnace 10RF Industrial boiler 11RF Utility boiler 12RF Process heater 13RF Other reuse as fuel unit  Puel Blending 1FB Fuel blending  Solidification 1S Cement or cement/silicate processe 2S Pozzolanic processes 3S Asphaltic processes 4S Thermoplastic techniques 5S Organic polymer techniques	(i.e., 63WTa)  Equalization 1WT Equalization  Cyanide oxidation 2WT Alkaline chlorination 3WT Ozone 4WT Electrochemical 5WT Other cyanide oxidation  General oxidation (including disinfection) 6WT Chlorination 7WT Ozonation 8WT UV radiation 9WT Other general oxidation  Chemical precipitation 10WT Lime 11WT Sodium hydroxide 12WT Soda ash 13WT Sulfide
2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven 9RF Other industrial furnace 10RF Industrial boiler 11RF Utility boiler 12RF Process heater 13RF Other reuse as fuel unit  Puel Blending 1FB Fuel blending  Solidification 1S Cement or cement/silicate processe 2S Pozzolanic processes 3S Asphaltic processes 4S Thermoplastic techniques 5S Organic polymer techniques 6S Jacketing (macro-encapsulation)	(i.e., 63WTa)  Equalization  1WT Equalization  Cyanide oxidation  2WT Alkaline chlorination  3WT Ozone  4WT Electrochemical  5WT Other cyanide oxidation  General oxidation (including disinfection)  6WT Chlorination  7WT Ozonation  8WT UV radiation  9WT Other general oxidation  Chemical precipitation  10WT Lime  11WT Sodium hydroxide  12WT Soda ash  13WT Sulfide  14WT Other chemical precipitation
2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven 9RF Other industrial furnace 10RF Industrial boiler 11RF Utility boiler 12RF Process heater 13RF Other reuse as fuel unit  Puel Blending 1FB Fuel blending  Solidification 1S Cement or cement/silicate processe 2S Pozzolanic processes 3S Asphaltic processes 4S Thermoplastic techniques 5S Organic polymer techniques 6S Jacketing (macro-encapsulation)	(i.e., 63WTa)  Equalization  1WT Equalization  Cyanide oxidation  2WT Alkaline chlorination  3WT Ozone  4WT Electrochemical  5WT Other cyanide oxidation  General oxidation (including disinfection)  6WT Chlorination  7WT Ozonation  8WT UV radiation  9WT Other general oxidation  Chemical precipitation  10WT Lime  11WT Sodium hydroxide  12WT Soda ash  13WT Sulfide  14WT Other chemical precipitation  Chromium reduction

## EXHIBIT 8-2. (continued)

#### MANAGEMENT METHODS

17VT Ferrous sulfate 18VT Other chromium reduction

Complexed metals treatment (other than chemical precipitation by pH adjustment)

19WT Complexed metals treatment

Emulsion breaking 20VT Thermal 21VT Chemical 22VT Other emulsion breaking

Adsorption 23WT Carbon adsorption 24VT Ion exchange 25WT Resin adsorption 26WT Other adsorption

Stripping 27VT Air stripping 28VT Steam stripping 29WT Other stripping

Evaporation 30VT Thermal - 31VT Solar 32WT Vapor recompression 33WT Other evaporation

Filtration 34WT Diatomaceous earth 35WT Sand 36VT Multimedia 37WT Other filtration

Sludge devatering 38WT Gravity thickening 39WT Vacuum filtration 40WT Pressure filtration (belt, plate and frame, or leaf)

41VT Centrifuge 42VT Other sludge devatering

Air flotation 43VT Dissolved air flotation -44WT Partial aeration 45VT Air dispersion 46WT Other air flotation

Oil skimming 47WT Gravity separation 48WT Coalescing plate separation 49WT Other oil skimming

Other liquid phase separation 50VT Decanting 51VT Other liquid phase separation

Biological treatment 52WT Activated sludge 53VT Fixed film-trickling filter 54WT Fixed film-rotating contactor 55WT Lagoon or basin, aerated 56VT Lagoon, facultative 57VT Anaerobic 58WT Other biological treatment

Other vastevater treatment 59WT Wet air oxidation 60VT Neutralization 61VT Nitrification 62VT Denitrification 63WT Flocculation and/or coagulation 64WT Settling (clarification) 65WT Reverse osmosis 66WT Other wastewater treatment

## OTHER VASTE TREATMENT

1TR Other treatment 2TR Other recovery for reuse

#### ACCUMULATION

1A Containers 2A Tanks

#### STORAGE

1ST Container (i.e., barrel, drum)
2ST Tank
3ST Waste pile
4ST Surface impoundment
5ST Other storage

#### DISPOSAL

1D Landfill

2D Land treatment

Surface impoundment (to be closed 3D as a landfill)

4D Underground injection well

<sup>1</sup> Chemical precipitation is a treatment operation whereby the pH of a waste is adjusted to the range necessary for removal (precipitation) of contaminants. However, if the pH is adjusted solely to achieve a neutral pH, THE OPERATION SHOULD BE CONSIDERED NEUTRALIZATION (60VT).

8.07 <u>CBI</u> [_]	brocess proc	y special handling instructions for ck or residual treatment block flow s for an example.)	the residuals identified in your diagram(s). (Refer to the
<b>.</b> _,	Stream		
	ID Code	Special Handl	ing Instructions
		opecial nandi	ing Institutions
8.08 CBI	containing o	ese construction materials that are representations of transporting the listed substance, a dangerous reaction or significant	and those materials that you know
8.08 CBI	containing o	er transporting the listed substance, a dangerous reaction or significant ain or transport the listed substance.	and those materials that you know corrosion (incompatible) if they are e.
CBI	containing of could cause used to cont  Stream ID	er transporting the listed substance, a dangerous reaction or significant ain or transport the listed substance.  Construction	and those materials that you know corrosion (incompatible) if they are e.
CBI	containing of could cause used to cont  Stream ID	er transporting the listed substance, a dangerous reaction or significant ain or transport the listed substance.  Construction	and those materials that you know corrosion (incompatible) if they are e.
CBI	containing of could cause used to cont  Stream ID	er transporting the listed substance, a dangerous reaction or significant ain or transport the listed substance.  Construction	and those materials that you know corrosion (incompatible) if they are e.
CBI	containing of could cause used to cont  Stream ID	er transporting the listed substance, a dangerous reaction or significant ain or transport the listed substance.  Construction	and those materials that you know corrosion (incompatible) if they are e.
CBI	containing of could cause used to cont  Stream ID	er transporting the listed substance, a dangerous reaction or significant ain or transport the listed substance.  Construction	and those materials that you know corrosion (incompatible) if they are e.
CBI	containing of could cause used to cont  Stream ID	er transporting the listed substance, a dangerous reaction or significant ain or transport the listed substance.  Construction	and those materials that you know corrosion (incompatible) if they are e.
CBI	containing of could cause used to cont  Stream ID	er transporting the listed substance, a dangerous reaction or significant ain or transport the listed substance.  Construction	and those materials that you know corrosion (incompatible) if they are e.
CBI	containing of could cause used to cont  Stream ID	er transporting the listed substance, a dangerous reaction or significant ain or transport the listed substance.  Construction	and those materials that you know corrosion (incompatible) if they are e.
CBI	containing of could cause used to cont  Stream ID	er transporting the listed substance, a dangerous reaction or significant ain or transport the listed substance.  Construction	and those materials that you know corrosion (incompatible) if they are e.

[_]		Stream ID Code	Annual Quantity (kg)
			<del></del>
			<del></del>
	Facility Name [		
	Address [[[	_(_(_(_(_(_(_(_(_(_(_(_(_(_(_(_(_(_(_(	
	[_[]		[_[_[_[_[_[_[_[_[_[_[_[_[_[_[_[_[_[_
			[_[_]
	EPA Identificatio Hazardous Vaste F	n Number (i.e., acility ID Number)	······ [][[][][][][]

8.10	Identification Permit Numbers Lis for your facility.	t any applicable identificat	ion or permit numbers
	EPA National Pollutant Discharge Eli (NPDES) Permit No.(s) (discharges to surface water)	mination System	
	EPA Underground Injection Well (UIC) Permit No.(s)(underground injection of fluids)	••••••••••	
	EPA Point Source Discharge (PSD) Permit No.(s)	••••••	
	EPA Hazardous Waste Management Facility Permit No.(s)	•••••••	
	Other EPA Permits (specify)		
		••••••	
	,		
		•	

	Pile	Quantity Managed per Year	Under Roofed Structure	Type of Contain- ment	Synthetic Liner Base	Frequency of Transfer and/or Handling	Stream ID
	Lite	(cubic meters)	(Y/N)	Provided <sup>1</sup>	$(Y/N)^2$	Operations'	Code
							***************************************
	2						
	3						
	4						
					·		
	5			-			<del></del>
	C = Comp cont P1 = Part	ollowing codes of lete (includes bainment) ial-1 (includes ial-2 (includes	ooth dike co just dike c	ntainment ar ontainment)	nd undergrou	nd (leachate)	
;	Waste may clay laye	lie directly on	the synthe	tic liner or	the liner	may be covered w	vith a
				£	£		
	Use the footnote operations	ollowing codes t s:	o designate	irequency o	or transier a	and/or handling	

					Average	Part of	•		
	Tank	Design Capacity (liters)	Quantity per Year (liters)	Treat- ment	Length of Storage (days)	Vastevater Treatment Train (Y/N) <sup>2</sup>	Tank Covered	Type of Containment	Strea ID
•	1	(11(0,13)	(II(CIS)	<u>Types</u>	_(days)	(1/10)	(Y/N)	Provided	Code
-	2						-	**************************************	<del></del>
•	3						***************************************		
	4								<del></del>
_	5								
		ircling the		_	•••••	• • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	1	
	No 2								
1	Indicate designate	"S" for stor treatment t	age or use (	the codes p	rovided in E	xhibit 8-3 (w	Lich follow	s question 8.13	3) to
:	Treatment publicly	train from owned treatm	which waster ent works	vater is di	scharged und	er a NPDES pe	rmit or thr	ough a sewer sy	stem to
	<sup>3</sup> Use the f	ollowing cod	es to design	nate the ty	pe of contai	nment provide	d:		
1		lete (includ	es both dike	e containme ce containm	nt and under	ground (leach	ale) contai	nment)	

	residuals i								
<u></u> 1	Container	Design Capacity (liters)	Quantity Stored per Year (liters)	Treat- ment Types	Average Length of Storage (days)	Average Daily Stored Quantity (liters)	Maximum Operational Storage Capacity (liters)	Storage Base Material <sup>2</sup>	Stream ID Code
	1			************					
	2		-					-	
	3								
	4						•		
	5								
					• • • • • • • • • • • • • • • • • • • •				
	No · · ·								
	<sup>1</sup> Indicate "	S" for storag	indicate (Y/N		ded in Exhibinesis whether				erated t
	<sup>1</sup> Indicate **  If residual collect and	S" for storag l is stored, d contain sur	indicate (Y/N face runoff	) in parenth	esis whether				erated t
	If residual collect and	S" for storag l is stored, d contain sur llowing codes	indicate (Y/N	) in parenth	esis whether				erated t
	If residual collect and 2Use the followers.	S" for storag l is stored, d contain sur llowing codes	indicate (Y/N face runoff	) in parenth	esis whether				erated t
	If residual collect and 2 Use the followed B = Asphal C = Soil	S" for storag l is stored, d contain sur llowing codes te	indicate (Y/N face runoff	) in parenth	esis whether				erated t

## EXHIBIT 8-3 [REFERS TO QUESTIONS 8.12, 8.13, AND 8.29]

## VASTEVATER TREATMENT TYPES

VASTEVATER TREATMENT

Equalization 1WT Equalization

Cyanide oxidation
2VT Alkaline chlorination
3VT Ozone
4VT Electrochemical

5WT Other cyanide oxidation

General oxidation (including disinfection) 6VT Chlorination

7WT Ozonation 9YT UV Radiation

9WT Other general oxidation

Chemical Precipitation<sup>1</sup>

10WT Lime 11WT Sodium hydroxide 12WT Soda ash

13WT Sulfide

14WT Other chemical precipitation

Chromium reduction 15VT Sodium bisulfite 16VT Sulfur dioxide 17VT Ferrous sulfate

18VT Other chromium reduction

Complexed metals treatment (other than chemical precipitation by pH adjustment)

19WT Complexed metals treatment

Emulsion breaking 20WT Thermal 21WT Chemical

22WT Other emulsion breaking

Adsorption

23VT Carbon adsorption 24VT Ion exchange 25VT Resin adsorption 26VT Other adsorption

Stripping

27WT Air stripping 28WT Steam stripping 29WT Other stripping

Evaporation 30VT Thermal

31VT Solar

32WT Vapor recompression 33WT Other evaporation

Filtration

34VT Diatomaceous earth

35VT Sand 36VT Multimedia 37VT Other filtration

Sludge devatering

38WT Gravity thickening 39WT Vacuum filtration

40VT Pressure filtration (belt, plate

and frame, or leaf)

41VT Centrifuge

42WT Other sludge dewatering

Air flotation

43WT Dissolved air flotation

44WT Partial aeration 45WT Air dispersion 46WT Other air flotation

Oil skimming

47WT Gravity separation

48WT Coalescing plate separation

49VT Other oil skimming

Other liquid phase separation

50VT Decanting

51VT Other liquid phase separation

Biological treatment

52WT Activated sludge

53WT Fixed film--trickling filter 54WT Fixed film--rotating contactor 55WT Lagoon or basin, aerated

56WT Lagoon, facultative

57VT Anaerobic

58WT Other biological treatment

Other wastewater treatment

59WT Wet air oxidation 60WT Neutralization 61WT Nitrification 62WT Denitrification

63WT Flocculation and/or coagulation

64VT Settling (clarification)

65WT Reverse osmosis

66WT Other wastewater treatment

<sup>&</sup>lt;sup>1</sup>Chemical precipitation is a treatment operation whereby the pH of a waste is adjusted to the range necessary for removal (precipitation) of contaminants. However, if the pH is adjusted solely to achieve a neutral pH, THE OPERATION SHOULD BE CONSIDERED NEUTRALIZATION (60VT).

8.14 CBI	(by capacity)	g in Boilers Complete boilers that are used on or residual treatment bl	1-site to burn the	a reciduale identifi	rgest ed in your
[ <u>]</u> ]	process brock (	or residual treatment bi	OCK IIOW diagram Average Boiler	Aver <b>age</b> Fuel Replacem <b>e</b> nt	Stream
	Boiler	Boiler Type <sup>1</sup>	Load <sup>2</sup> (%)	Ratio <sup>3</sup> (%)	ID Code
	1				
	2				
	3				
	4				
	5	-	-		
,	by circli	if Office of Solid Wast	onse.		
	No	•••••	• • • • • • • • • • • • • • • • • • • •	***********	
	Use the follow  F = Fire tube  W = Water tube	ing codes to designate l			
		average boiler load when	n firing residual	(nercent of capacit	· · · · ·
		average fuel replacement			
			- IIII US a perc	entage (neat-input t	,4313)
		٠.			

		Bailes Hank	
		Boiler Heat Capacity	Primary Boiler
Boiler		(heat input in kJ/hr)	Fuel
1			
			<del></del>
3		***************************************	
4			
5			
by circ	ling the appro	Solid Waste survey has been subm priate response.	
NO	• • • • • • • • • • • • • • • • • • • •	•••••	• • • • • • • • • • • • • • • • • • • •
A = Oil B = Gas	owing codes to D = Wood	designate the primary boiler fue (specify)	
A = Oil	owing codes to D = Wood	designate the primary boiler fue	
A = Oil B = Gas	owing codes to D = Wood	designate the primary boiler fue	
A = Oil B = Gas	owing codes to D = Wood	designate the primary boiler fue	
A = Oil B = Gas	owing codes to D = Wood	designate the primary boiler fue	
A = Oil B = Gas	owing codes to D = Wood	designate the primary boiler fue	
A = Oil B = Gas	owing codes to D = Wood	designate the primary boiler fue	
A = Oil B = Gas	owing codes to D = Wood	designate the primary boiler fue	
A = Oil B = Gas	owing codes to D = Wood	designate the primary boiler fue	
A = Oil B = Gas	owing codes to D = Wood	designate the primary boiler fue	

CBI	Photocopy this question and complet		
[_]	Boiler number		
	Stream ID code(s)		
		Residual, as Fired (or residual mixture if residuals are blended)	Boiler Fuel, as Fired (residual(s) plus primary fuel)
	Btu content (J/kg)		
	Average		· ·
	Minimum	,	
	Total halogen content (% by wt.)		
	Average		
	Maximum		
	•		
	Indicate if Office of Solid W by circling the appropriate r		tted in lieu of response
	Indicate if Office of Solid W	esponse.	•
	Indicate if Office of Solid W by circling the appropriate r	esponse.	
	Indicate if Office of Solid W by circling the appropriate r	esponse.	
	Indicate if Office of Solid W by circling the appropriate r	esponse.	
	Indicate if Office of Solid W by circling the appropriate r	esponse.	

	Stream ID	Listed	Total Metal Content (% by weight)
Boiler	Code	Metal <sup>1</sup>	Avg. Max.
1			
	,		
•			
4			
_			
	te if Office of Solid V cling the appropriate v	Waste survey has been sul response.	omitted in lieu of res
Yes		• • • • • • • • • • • • • • • • • • • •	
No	••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
<sup>1</sup> A listed me	tal is either an EP to List (as defined in sec	xic metal or a metal that ction 3004(d)(2) of the H	t is included on the

8.18	on-site to burn the r	esiquals identified in your r	(by capacity) boilers that are used
<u>CBI</u>	block flow diagram(s)		
<u> </u>	Boiler	Air Pollution Control Device	Types of Emissions Data Available
	1		
	2		
	3		
	4		
	5		
	by circling the	appropriate response.	been submitted in lieu of response
	E = Electrostatic pre	e type of scrubber in parenthecipitator	
÷			
		•	
	Mark (X) this box if y	ou attach a continuation shee	

8.19 CBI	Stack Parameters Provide the following information for each of the five (by capacity) boilers that are used on-site to burn the residuals identify process block or residual treatment block flow diagram(s). Photocopy this and complete it separately for each boiler.	_ 3
[_]	Boiler number	-
	Stack height	m
	Stack inner diameter (at outlet)	m
	Exhaust temperature	°C
	Vertical or horizontal stack	(V or H)
	Annual emissions for the listed substance	
	Height of attached or adjacent building	
	Width of attached or adjacent building	
	Building cross-sectional area	
	Emission exit velocity	
	Average emission rate of exit stream	
	Maximum emission rate of exit stream	
	Average duration of maximum emission rate of exit stream .	
	Frequency of maximum emission rate of exit stream	
	Indicate if Office of Solid Waste survey has been submitted in lieu by circling the appropriate response.	of response
	Yes	1
	No	2
-		
<u>1</u>	Mark (X) this box if you attach a continuation sheet.	

8.20	(by capacity) inc	inerators that are	Complete the following used on-site to burn	the residuals in	three larges dentified in
CBI	your process bloc	k or residual trea	tment block flow diag	gram(s).	
[_]	Incinerator	IncineratorType <sup>1</sup>	Primary Incinerator Fuel	Average Fuel Replacement Ratio	Stream ID Code
	1				
	2				
	3				
		Office of Solid I	aste survey has been	submitted in lies	of response
		the appropriate		Submitted in lie	i di Tespons
	Yes		,		
	No				• • • • • • • • • •
	<sup>1</sup> Use the following	g codes to designa	te the incinerator ty	/pe:	
	<pre>1I = Liquid inject 2I = Rotary or reconstruction under the stage 3I = Two stage 5I = Fixed hearts</pre>	ocking kiln with a liquid nit	6I = Multiple hea 7I = Fluidized be 8I = Infrared 9I = Fume/vapor 10I = Pyrolytic de 11I = Other (speci	ed estructor	
	<sup>2</sup> Use the following	g codes to designa	te the primary incine	erator fuel:	
	A = Oil B = Gas C = Coal		D = Wood E = Other (specify	')	
	<sup>3</sup> Designate the percapacity)	rcentage of auxili	ary fuel used when fi	ring residual (p	ercent of
[ ]	Mark (X) this box	if you attach a c	ontinuation sheet.		

[noins	erator	Incinerator Capacity (heat input	in	Feed,
.IIC I IIE	<del></del>	kJ/hr)	·	Type
	1		<del></del>	
	2			<b>←</b>
	3			
700-	Indicate if Office of Solid by circling the appropriate	Waste survey response.	has been submitt	ed in lieu of resp
	Yes	•••••	•••••••	•••••
	No	•••••	• • • • • • • • • • • • • • • •	******
D :	= Solid-batch charge = Solid-continuous charge			

8.22 CBI	Describe the of (by capacity) your process b	incinerator	s that are us	sed on-site	to burn the r	esiduals id	argest entified in		
[_]		Combustion Chamber Temperature (°C)		Loca Temp	tion of erature nitor	Resid In Co	Residence Time In Combustion Chamber (seconds)		
	Incinerator	Primary	Secondary	Primary	Secondary	Primary	Secondary		
	1								
	2			<del></del>					
	3								
	by circl	ing the app	ropriate resț	onse.	s been submit		-		
	Yes	• • • • • • • • • • •	• • • • • • • • • • • •	•••••	• • • • • • • • • • • •	• • • • • • • • • •	1		
	No	• • • • • • • • • • •	• • • • • • • • • • • • •	•••••	• • • • • • • • • • • • •	• • • • • • • • • •	2		
8.23 <u>CBI</u> []	Complete the fare used on-si treatment bloc  Incinerator	te to burn t	the residuals ram(s). N 1A Air Po	identified	in your proc	ess block or	r residual s of ns Data		
	1								
	2			i					
	3			•					
	Indicate if Office of Solid Waste survey has been submitted in lieu of response by circling the appropriate response.								
	Yes	• • • • • • • • • •	· • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • •			
	No								
	<sup>1</sup> Use the follow S = Scrubber (	wing codes t	o designate	the air pol					
	E = Electrosta O = Other (spe	atic precipi ecify)	tator						
[_]	Mark (X) this l	oox if you a	ittach a cont	inuation she	eet.				

8.24 CBI	Stack Parameters Provide the following information on stack parameters three largest (by capacity) incinerators that are used on-site to burn the identified in your process block or residual treatment block flow diagram Photocopy this question and complete it separately for each incinerator.	e residuals
[_]	Incinerator number	_
	Stack height	_ m
	Stack inner diameter (at outlet)	_ m
	Exhaust temperature	_ °C
	Vertical or horizontal stack	(V or H)
	Annual emissions for the listed substance	_ kg/yr
	Height of attached or adjacent building	_ <b>a</b>
	Width of attached or adjacent building	_ m
	Building cross-sectional area	- <sup>m</sup> <sup>2</sup>
	Emission exit velocity	_ m/sec
	Average emission rate of exit stream	_ kg/min
	Maximum emission rate of exit stream	_ kg/min
	Average duration of maximum emission rate of exit stream .	_ min
	Frequency of maximum emission rate of exit stream	_ times/year
	Indicate if Office of Solid Waste survey has been submitted in lieu by circling the appropriate response.	of response
	Yes	
	No	2
•	;	
_1	Mark (X) this box if you attach a continuation sheet.	

CBI	Provide the following information on the capacity) incinerators that are used on-sprocess block or residual treatment block and complete it separately for each incin	flow diagram(s). Photocherator.	identified in your opy this question
[_]	Incinerator number	•••••	
:	Stream ID code(s)	****	
		Residual, as Fired (or residual mixture if residuals are blended)	Incinerator Fuel, as Fired (residual(s) plus primary fuel)
B	Stu content (J/kg)		
	Average		
	Minimum		
F	eed rate (kg/hr)		
- <b>F</b> e	eed rate (J/hr)(kg/hr x J/kg)		
To	otal halogen content (% by weight)		
	Average		
	Maximum		
To	otal ash content (% by weight)		
	Average	•	
	Maximum		
To	tal water content (% by weight)		
	Average		
	Maximum		
	Indicate if Office of Solid Waste sur by circling the appropriate response.	vey has been submitted in	lieu of response
	Yes	•••••	•
	No	***********	
		×	2
] Mar	k (X) this box if you attach a continuat:	ion shoot	

8.26 CBI	capacity) incine	owing information on th rators that are used on residual treatment blo	-site to burn the res	or the three largest (by siduals identified in your
[_]	<u>Incinerator</u>	Stream ID Code	Listed Metal	Total Metal Content (% by weight) Avg. Max.
	1	***		
			***	
			<del></del>	·
	<u> </u>	The state of the s		***************************************
	_			
	3			
	Yes		• • • • • • • • • • • • • • • • • • • •	
	<sup>1</sup> A listed metal i	is either an EP toxic me (as defined in section	etal or a metal that	
		,		
			•	
•				
[_]	Mark (X) this box	d if you attach a continu	nuation sheet.	

8.27 <u>CBI</u>	On-Site Storage, Treatment or Disposal in a Land Treatment Site Complete the following table for each on-site land treatment site that is used to store, treat, or dispose of the residuals identified in your process block or residual treatment block flow diagram(s).							
[_]	Total area actively used for land treatment m							
		2)						
	Surface water runoff management 1	•••••						
		te survey has been submitted in lieu of response						
	Yes							
	No	2						
	<pre>Use the following codes to describe runoff: A = Collection prior to treatment</pre>	the management practices for surface water  C = Canalization prior to treatment						
	B = Reapplication to the site	D = Other (specify)						
	•							
	:							
	·							
	ark (X) this box if you attach a cont	inuation sheet.						

Stream ID	Year Land	Methods Used to Applic
Code	Treatment Initiated	Apply Residuals <sup>1</sup> Ra
Indicate i by circula	f Office of Solid Waste survey g the appropriate response.	has been submitted in lieu of re
Yes	•••••••••••	•••••
No	•••••	••••••
<sup>1</sup> Use the followi	ng codes to describe the metho	
	ng codes to describe the metho	od(s) used to apply residuals to t
<sup>1</sup> Use the followi land treatment A = Surface spr	ng codes to describe the methorsite: eading or spray irrigation with	d(s) used to apply residuals to the
Use the followi land treatment  A = Surface spr B = Surface spr depth of	ng codes to describe the methorsite: eading or spray irrigation with eading or spray irrigation with	d(s) used to apply residuals to the hout plow or disc incorporation holow or disc incorporation to a
Use the followi land treatment  A = Surface spr B = Surface spr depth of C = Subsurface	ng codes to describe the methorsite:  eading or spray irrigation with eading or spray irrigation with cm injection to a depth of	hd(s) used to apply residuals to the hout plow or disc incorporation h plow or disc incorporation to a
1 Use the following land treatment  A = Surface sprometer surface sprometer of C = Subsurface D = Other (specific specific specif	ng codes to describe the methorsite:  eading or spray irrigation with eading or spray irrigation with cm injection to a depth of ify)	hod(s) used to apply residuals to the chout plow or disc incorporation holow or disc incorporation to a
1 Use the following land treatment  A = Surface sprometer B = Surface sprometer for C = Subsurface D = Other (spective A = Daily	ng codes to describe the methorsite:  eading or spray irrigation with eading or spray irrigation with cm injection to a depth of	hod(s) used to apply residuals to the chout plow or disc incorporation holow or disc incorporation to a
1 Use the following land treatment  A = Surface sprometer B = Surface sprometer for C = Subsurface D = Other (spective A = Daily B = Weekly	ng codes to describe the methorsite:  eading or spray irrigation with eading or spray irrigation with cm injection to a depth of ify)	hod(s) used to apply residuals to the chout plow or disc incorporation holow or disc incorporation to a
1 Use the following land treatment  A = Surface sprometer B = Surface sprometer for C = Subsurface D = Other (spective A = Daily	ng codes to describe the methorsite:  eading or spray irrigation with eading or spray irrigation with cm injection to a depth of ify)  ng codes to designate the appl	hod(s) used to apply residuals to the chout plow or disc incorporation holow or disc incorporation to a
1 Use the following land treatment  A = Surface sprometric sprometric surface sprometric specular sprometric specular sp	ng codes to describe the methorsite:  eading or spray irrigation with eading or spray irrigation with cm injection to a depth of ify)  ng codes to designate the appl	hod(s) used to apply residuals to the chout plow or disc incorporation holow or disc incorporation to a
1 Use the following land treatment  A = Surface sprometric sprometric surface sprometric specular sprometric specular sp	ng codes to describe the methorsite:  eading or spray irrigation with eading or spray irrigation with cm injection to a depth of ify)  ng codes to designate the appl	hod(s) used to apply residuals to the chout plow or disc incorporation holow or disc incorporation to a
1 Use the following land treatment  A = Surface sprometric sprometric surface sprometric specular sprometric specular sp	ng codes to describe the methorsite:  eading or spray irrigation with eading or spray irrigation with cm injection to a depth of ify)  ng codes to designate the application if the injection codes injection to designate the application if the injection injection injection to a depth of injection to a depth of injection to a depth of injection injection to a depth of injection to a depth of injection inje	hod(s) used to apply residuals to the chout plow or disc incorporation holow or disc incorporation to a
1 Use the following land treatment  A = Surface sprometric sprometric surface sprometric specular sprometric specular sp	ng codes to describe the methorsite:  eading or spray irrigation with eading or spray irrigation with cm injection to a depth of ify)  ng codes to designate the application if the injection codes injection to designate the application if the injection injection injection to a depth of injection to a depth of injection to a depth of injection injection to a depth of injection to a depth of injection inje	hod(s) used to apply residuals to the chout plow or disc incorporation holow or disc incorporation to a
1 Use the following land treatment  A = Surface sprometric sprometric surface sprometric specular sprometric specular sp	ng codes to describe the methorsite:  eading or spray irrigation with eading or spray irrigation with cm injection to a depth of ify)  ng codes to designate the application if the injection codes injection to designate the application if the injection injection injection to a depth of injection to a depth of injection to a depth of injection injection to a depth of injection to a depth of injection inje	hod(s) used to apply residuals to the chout plow or disc incorporation holow or disc incorporation to a
1 Use the following land treatment  A = Surface sprometric sprometric surface sprometric specular sprometric specular sp	ng codes to describe the methorsite:  eading or spray irrigation with eading or spray irrigation with cm injection to a depth of ify)  ng codes to designate the application if the injection codes injection to designate the application if the injection injection injection to a depth of injection to a depth of injection to a depth of injection injection to a depth of injection to a depth of injection inje	hod(s) used to apply residuals to the chout plow or disc incorporation holow or disc incorporation to a

	m-A-1	Specify Storage, Disposal or	Average		IC LINER	***	LINER	COLLE	HATE CTION TEM	
Impour ment	44 7	Treatment Type if Applicable	Residency Time (days) <sup>2</sup>	No. of <u>Liners</u>	Thick- ness (cm) <sup>3</sup>	No. of Liners	Thickness (cm)	Installed (Y/N)	Leachate Collected (Y/N)	Strea ID Co
1_										
2										
3										
4										<del></del>
5										
	by circling t	Office of Solid the appropriate	response.	•			•			
	No 2									
8.13) <sup>2</sup> Indic	<sup>1</sup> Indicate "S" for storage, "D" for disposal, or use the codes provided in Exhibit 8-3 (which follows question 8.13) to designate treatment type <sup>2</sup> Indicate the residency time for the surface impoundment's flow through stream. In addition, indicate in parenthesis using the following codes the frequency with which the impoundment is dredged to clear the residue that collects on the bottom:									
A = Daily										
	Indicate the thickness of each liner									

С		
ī		
٠	•	

Landfil	F 7	Installed	E LAYER Thickness	No. of	LINER Thickness	No. of	THETIC LIN	ER Thickness	Stream ID
Cell_	(kg)	(Y/N)	(cm)	Liners	(CW) <sub>1</sub>	Liners	<u>Material</u>	(cm) <sub>1</sub>	Code
1							<u></u>		
2			***************************************						
3									<del></del>
4									
5	<del></del>								
Indicate if Office of Solid Waste survey has been submitted in lieu of response by circling the appropriate response.									
Yes 1									
No			• • • • • • • • •			• • • • • • • • • •	2		
			h liner						
1 Indica	te the thick	DACC AT ASA							

[ $\overline{\phantom{a}}$ ] Mark (X) this box if you attach a continuation sheet.

8.31	State the total	area actively used on	-site for your landfill.							
<u>CBI</u>										
[_]	Total area actively used m <sup>2</sup>									
	Indicate if Office of Solid Waste survey has been submitted in lieu of response by circling the appropriate response.									
	Yes	••••••	•••••							
	No	•••••	• • • • • • • • • • • • • • • • • • • •							
8.32 CBI	Complete the fol contain residual diagram(s).	lowing table for the s s identified in your	five largest landfill cel process block or residual	ls (by volume) that treatment block flow						
[_]		VORKING	CAP DESIGN	LEACHATE COLLECTION SYSTEM						
		COVER	CLAY LAYER	Leachate						
	Landfill Cell	Average Thickness Use (cm)	Installed Thickness (Y/N) (cm)	Installed Collected (Y/N) (Y/N)						
	1									
	2									
	3									
	4									
	5									
	Indicate in by circling	f Office of Solid Wast g the appropriate resp	te survey has been submit ponse.	ted in lieu of response						
	Yes	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •							
	No	• • • • • • • • • • • • • • • • • • • •	•••••	2						
	<sup>1</sup> Use the following A = Daily B = Weekly C = Monthly	ify)								
[_]	Mark (X) this box	k if you attach a cont	inuation sheet.	,						

8.33 CBI	largest (by volume) identified in vour	Injection Wells injection wells th	Complete the following tabl at are used on-site to dispo	e for the five se of the residual
<del>,</del> _,	, and a second start of the second start of th	rocess block of le	at are used on-site to dispo sidual treatment block flow	diagram(s).
(1			_	
		<b>Well</b>	Quantity	Stream
	Vell_	Type <sup>1</sup>	Disposed (liters) <sup>2</sup>	ID
			(liters)	Code
	2			
	3			
	5			
			-	
	Indicate if Of by circling the	fice of Solid Waste e appropriate respo	e survey has been submitted inse.	n lieu of response
	Yes	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	1
	No	• • • • • • • • • • • • • • • • • • • •	••••••	2
	4122014E0 201102	ose below deepest g se into a formatio solids se above all groun	roundwater with <10,000 mg/l n containing groundwater wit	
		•		
_, м	ark (X) this box if y	ou attach a contin	unting sheet	

	SECTION 9 WORKER EXPOSURE			
General Instruction	General Instructions:			
processing the list treatment unless th	apply only to those processes and workers involved in manufacturing or ed substance. Do not include workers involved in residual waste ey are involved in this treatment process on a regular basis (i.e., workers, construction workers, etc.).			

[\_] Mark (X) this box if you attach a continuation sheet.

## PART A EMPLOYMENT AND POTENTIAL EXPOSURE PROFILE

<u></u> 1	<u>D</u>	ata are Maintained for: Year in Which Numbe					
	Data Element	Hourly Vorkers	Salaried Workers	Data Collection Began	Years Records  Are Maintaine		
	Date of hire	<u>×</u>		1961	INDERINITE		
	Age at hire			1961	INDEF NITE		
	Work history of individual before employment at your facility	NA	×	NA/1961			
	Sex	¥	Y	1961	INDEFINITE		
	Race			1961	INDEFINITE		
	Job titles	NA_	NA	NA NA			
	Start date for each job title	NA_	NA_	<u></u>	NA		
	End date for each job title	NA_	NA	NA	NA_		
	Work area industrial hygiene monitoring data	NA	NA	NA	РΑ		
	Personal employee monitoring data	NA_	_ NA	NA	NA		
	Employee medical history	<u> </u>		1961	JUDEFINITE		
	Employee smoking history	NA	N A	N A	VА		
	Accident history			1961	INDEFINITE		
	Retirement date	X	X	1961	INDEFINITE		
	Termination date	<u>X</u>		1961	INDEF, WITE		
	Vital status of retirees	NA	NA	NA	<u> </u>		
	Cause of death data	Ne	NA	NA	NA		

|--|

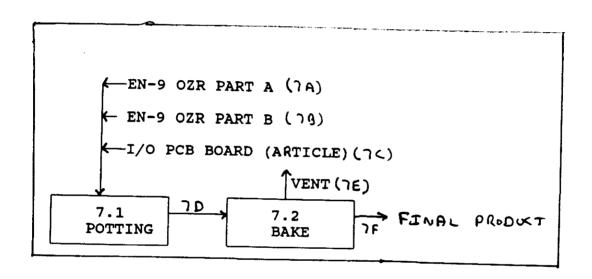
.02 :BI	in which you engage.	e instructions, complete	e the following ta	ore ror e	acm accivity
_1	a.	<b>b.</b>	c.	d.	e.
•	Activity	Process Category	Yearly Quantity (kg)	Total Workers	Total Worker-Hour
	Manufacture of the	Enclosed	NIV	N 18	NIA
	listed substance	Controlled Release			
		0pen			
	On-site use as	Enclosed			
	reactant	Controlled Release			
		0pen			
	On-site use as	Enclosed			
	nonreactant	Controlled Release			
	1	0pen		<u> </u>	
	On-site preparation	Enclosed	_ 22		5
	of products	Controlled Release	<u>~/\a</u>	NIA	NIA
		0pen			
		,			

[\_] Mark (X) this box if you attach a continuation sheet.

	descriptive job title for each labor category at your facility that so workers who may potentially come in contact with or be exposed to the stance.
<u>BI</u> 	
Labor Categ	Ory Descriptive Job Title
A	PL-1
В	Dr-9
C	
D	
E	
F	
G	
H	
. I	
J	
•	
	·

9.04	In accordance with the instructions, indicate associated work areas.	provide	your	process	block	flow	diagram(s)	and
<u>CBI</u>								
[_]	Process type		***	Po	ot tin	ار ه	F IIO CAB	LE

ASSEM BLY



[ ] Mark (X) this box if you attach a continuation sheet.

9.05 CBI	may potentially con additional areas no	us work area(s) shown in question 9.04 that encompass workers who me in contact with or be exposed to the listed substance. Add any of shown in the process block flow diagram in question 7.01 or his question and complete it separately for each process type.
[_]	Process type	• •
	Work Area ID	Description of Work Areas and Worker Activities
	1	POTTING MACHINE AND OVEN
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	
_		
		,

9.06 CBI	come in con	tact with or he	ple for each work or facility that e e exposed to the l for each process	ncompasses work	ers who may po	
[_]						05554011
			• • • • • • • • • • • • • • • • • • • •		Liv Ciyaca	HOJC INBCY
	Labor <u>Category</u>	Number of Workers Exposed	Mode of Exposure (e.g., direct skin contact)	Physical State of	Average Length of Exposure Per Day <sup>2</sup>	Number o Days per Year Exposed
	A, B		AI M	<u> </u>	UNKNOWN	LNKNOWA
						-
	-			_		
2	GC = Gas (contemper GU = Gas (contemper include SO = Solid Guse the foll A = 15 minut B = Greater exceedin C = Greater	condensible at a cature and pressincondensible acture and pressies fumes, vapor owing codes to es or less than 15 minutes	sure) All t ambient Oli sure; Il rs, etc.)  designate average but not E	Y = Sludge or sl L = Aqueous liqu L = Organic liqu L = Immiscible l	urry id id iquid ses, e.g., 0% toluene) sure per day: 2 hours, but nours 4 hours, but nours	no t
ј м			ach a continuatio	= Greater than to	B hours	·····

CBI	Process type		POTTING OF	CID CABLE
			1	Assem BLH
	WOLK BIED			
	Labor Category	8-hour TWA Exposure Level (ppm, mg/m³, other-specify)	(ppm, mg/m <sup>3</sup>	k Exposure Leve other-specify
	NO MONITORIA	OC RESULTS AVAILABLE	- OPERATION	NOT SPLEO
	<del></del>			
			<del></del>	
	**************************************		**************************************	
		·		

Sample/Test	Work Area ID	Testing Frequency (per year)	Number of Samples (per test)	Who Samples <sup>1</sup>	Analyzed In-House (Y/N)	Number of Years Record Maintained
Personal breathing zone	NIA	NIA	NIA	N IA	N 16	NIA
General work area (air)	+					
Wipe samples						
Adhesive patches						
Blood samples						
Urine samples						
Respiratory samples						
Allergy tests						
Other (specify)						
Other (specify)						
Other (specify)						
						Ų.
<sup>1</sup> Use the following c  A = Plant industria B = Insurance carric C = OSHA consultant D = Other (specify)	l hygienis		takes the	monitorin	g samples:	

[_]	Sample Type	Sa	Sampling and Analytical Methodology					
	NIA	_	NIA					
		-						
			Ψ					
9.10	If you conduct pers specify the following	onal and/or ambient a	air monitoring fo ach equipment typ	r the listed s	ubstance,			
CBI	Equipment Type <sup>1</sup>	Detection Limit <sup>2</sup>	Manufacturan	Averaging	Madal Number			
LJ			Manufacturer	Time (hr)	Model Number			
	N_IA		NIA	_ win	NIA			
	•			_	-			
				_				
		<u></u>	Ψ		<u> </u>			
	A = Passive dosimes B = Detector tube C = Charcoal filtra D = Other (specify) Use the following of E = Stationary moni F = Stationary moni G = Stationary moni H = Mobile monitori I = Other (specify)	tion tube with pump codes to designate an tors located within tors located within tors located at plan ng equipment (specif	work area facility t boundary	ring equipment				
	B = Fibers/cubic ce C = Micrograms/cubi	ntimeter (f/cc) c meter (µ/m³)						

[]	Test Descri	iption	(veek	Free	quency ly, yearly, e	tc.)
	NIA			NA		
	<u> </u>					
•						
		;				

12 <u>I</u>	Describe the engineering controls that you use to reduce or eliminate worker exposure to the listed substance. Photocopy this question and complete it separately for each process type and work area.  Process type								
<u> </u>	Process type	Po Hina	of I/o	Cable	Assembly				
	Work area								
	Engineering Controls	Used (Y/N)	Year Installed	Upgraded (Y/N)	Year Upgraded				
	Ventilation:								
	Local exhaust	NIA	NIA_	NB	N10				
	General dilution								
	Other (specify)								
	Vessel emission controls								
	Mechanical loading or packaging equipment								
	Other (specify)		V						

).13 BI	Describe all equipment or process modifications you have prior to the reporting year that have resulted in a red the listed substance. For each equipment or process modification that resulted. Photomorphisms it is separately for each process type and work a	uction of worker exposure diffication described, stat
	Process type Pothing of I/O	Calle Assembly
	Work area	1
	Equipment or Process Modification	Reduction in Worker Exposure Per Year (%
	w	NIA
		·
	<u> </u>	

9.14	in each work area	nal protective and safety equi in order to reduce or eliminat opy this question and complete	e their expos	sure to the	listed
CBI					
<u> </u>	Process type	• • •	Pot	12nc of	IIO Cable A
	Work area	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • •	1	
			Wear or		
		Equipment Types	Use (Y/N)		
		Respirators	۲		
		Safety goggles/glasses	4		
		Face shields	<u> </u>		
	4	Coveralls	<u> </u>		
		Bib aprons	<u> </u>		
		Chemical-resistant gloves	Ų		
		Other (specify)			
		NIA	<u> </u>		
			۲		
		•			

• ·

9.15	respirators tested, and	se respirators when, the work areas whensel, the average us the type and frequent separately for each	sage, whether or	ors are us	sed, the type	of
CBI						
[_]	Process type	•••••	Patting of	I/o	Cable As	sembly
	Work Area	Respirator Type	Average Usage	rit	Type of Fit Test <sup>2</sup>	Frequency of Fit Tests (per year)
	NIA	NIA	NIA	NIA	NIA	NIA
		Ψ		<u> </u>		
	A = Daily B = Weekly C = Monthly D = Once a ye E = Other (sp  2 Use the follo OL = Qualitat QT = Quantita	ovecify)  owing codes to designative		of fit test	:	
[_] 1	Mark (X) this l	box if you attach a	continuation sh	neet.		

9.16	the listed substance.	e Program For each type of respirator used specify the frequency of the maintenance act he maintenance activity. Photocopy this ques h respirator type.	ivity, and the
	Respirator type	•	
	Respirator Maintenance Activity	Frequency <sup>1</sup>	Person Performing Activity <sup>2</sup>
	Cleaning		
	Inspection		
	Replacement		
	Cartridge/Canister		·
	Respirator unit	<del></del>	
	A = After each use B = Weekly C = Other (specify)  Use the following cod A = Plant industrial B = Supervisor C = Foreman D = Other (specify)	les to designate the frequency of maintenance les to designate who performs the maintenance hygienist  ou attach a continuation sheet.	

			t separately for ea		, p
a.	,				
Respirator ty	pe				
Type of Training	Number of Workers Trained	Location of	Length of Training (hrs)	Person Performing Training	Frequency
b.					
Respirator ty	pe				
Type of Re-training	Number of Workers Re-trained	Location of Re-Training	Length of Re-Training (hrs)	Person Performing Re-Training	Frequency
A = Outside B = In-house C = On-the-j D = Other (s	classroom i ob				
	owing codes	to designate	the person who perf	- forms the training	ng or
A = Plant in B = Supervis C = Foreman D = Other (s	dustrial hyg			_	
Use the foll re-training:	_	to designate	the frequency of re	spirator trainin	ng or
A = Monthly					
B = Fixed mo	nthly pecify)			_	

Clothing and Equipment		Permeation Tests Conduc (Y/N)
Coveralls		
Bib apron		
Gloves		
Other (specify)		
	·	
		·

9	Describe all of the work peliminate worker exposure authorized workers, mark a monitoring practices, providestion and complete it s	to the listed su areas with warnin dide worker train	ubstance (e.g. ng signs, insu ning programs,	, restrict en ire worker det etc.). Phot	ntrance only to ection and cocopy this
]	Process type	P.#	ina of T	E/O Cabl	le Assemb
	Process type  Work area	• • • • • • • • • • • • • • • • • • • •	.)	1	
	WORK INSTRUC	7 ZO N		·	
	EQUIPMENT INF	ARKED WITH	12AH 187A	ARD CODÊ	
0	Indicate (X) how often you leaks or spills of the lis separately for each proces	ted substance.	Photocopy thi		
	leaks or spills of the lis separately for each process  Process type  Work area	ted substance. s type and work  Less Than	Photocopy thiarea.  1-2 Times	s question an	More Than
	leaks or spills of the lis separately for each process MIA  Process type  Work area  Housekeeping Tasks	ted substance. s type and work	Photocopy thiarea.  1-2 Times Per Day	3-4 Times Per Day	More Than Times Per D
	leaks or spills of the lis separately for each process  Process type  Work area  Housekeeping Tasks  Sweeping	Less Than Once Per Day	Photocopy thiarea.  1-2 Times	3-4 Times Per Day	More Than Times Per D
	leaks or spills of the lis separately for each process MIA  Process type  Work area  Housekeeping Tasks	Less Than Once Per Day	Photocopy thiarea.  1-2 Times Per Day	3-4 Times Per Day	More Than Times Per D
	leaks or spills of the lis separately for each process Process type  Work area  Housekeeping Tasks Sweeping Vacuuming	Less Than Once Per Day	Photocopy thiarea.  1-2 Times Per Day	3-4 Times Per Day	More Than Times Per D
	leaks or spills of the lis separately for each process Process type  Work area  Housekeeping Tasks Sweeping Vacuuming Vacuuming Vater flushing of floors	Less Than Once Per Day	Photocopy thiarea.  1-2 Times Per Day	3-4 Times Per Day	More Than Times Per D
	leaks or spills of the lis separately for each process Process type  Work area  Housekeeping Tasks Sweeping Vacuuming Vacuuming Vater flushing of floors	Less Than Once Per Day	Photocopy thiarea.  1-2 Times Per Day	3-4 Times Per Day	More Than Times Per D
	leaks or spills of the lis separately for each process Process type  Work area  Housekeeping Tasks Sweeping Vacuuming Vacuuming Vater flushing of floors	Less Than Once Per Day	Photocopy thiarea.  1-2 Times Per Day	3-4 Times Per Day	More Than Times Per D

9.21	Do you have a written medical action plan for responding to routine or emergency exposure to the listed substance?	
	Routine exposure	
	Yes 1	
	No 2	
	Emergency exposure	
•	Yes 1	
	No 2	
	If yes, where are copies of the plan maintained?	
•	Routine exposure:	
	Emergency exposure:	
9.22	Do you have a written leak and spill cleanup plan that addresses the listed substance? Circle the appropriate response.	
	Yes 1	,
	No (2	>
	If yes, where are copies of the plan maintained?	-
	Has this plan been coordinated with state or local government response organizations? Circle the appropriate response.	,
	Yes 1	L
	No 2	O
9.23	Who is responsible for monitoring worker safety at your facility? Circle the appropriate response.	
	Plant safety specialist 1	Ĺ
	Insurance carrier	!
	OSHA consultant 3	ţ
	Other (specify)	•
[_]	Mark (X) this box if you attach a continuation sheet.	•

9.24	Who is responsible for safety and health training at your fappropriate response.	acility? Circle the
	Plant safety specialist	
	Insurance carrier	
	OSHA consultant	3
	Other (specify)	4
9.25	Who is responsible for the medical program at your facility response.	
	Plant physician	
	Consulting physician	2
	Plant nurse	
	Consulting nurse	
	Other (specify)	5

## SECTION 10 ENVIRONMENTAL RELEASE

## General Instructions:

Complete Part E (questions 10.23-10.35) for each non-routine release involving the listed substance that occurred during the reporting year. Report on all releases that are equal to or greater than the listed substance's reportable quantity value, RQ, unless the release is federally permitted as defined in 42 U.S.C. 9601, or is specifically excluded under the definition of release as defined in 40 CFR 302.3(22). Reportable quantities are codified in 40 CFR Part 302. If the listed substance is not a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and, thus, does not have an RQ, then report releases that exceed 2,270 kg. If such a substance however, is designated as a CERCLA hazardous substance, then report those releases that are equal to or greater than the RQ. The facility may have answered these questions or similar questions under the Agency's Accidental Release Information Program and may already have this information readily available. Assign a number to each release and use this number throughout this part to identify the release. Releases over more than a 24-hour period are not single releases, i.e., the release of a chemical substance equal to or greater than an RQ must be reported as a separate release for each 24-hour period the release exceeds the RO.

For questions 10.25-10.35, answer the questions for each release identified in question 10.23. Photocopy these questions and complete them separately for each release.

10.01	Where is your facility located? Circle all appropriate responses.
CBI	
[_]	Industrial area(
	Urban area
	Residential area
	Agricultural area
	Rural area
	Adjacent to a park or a recreational area
	Within 1 mile of a navigable waterway
	Within 1 mile of a school, university, hospital, or nursing home facility
	Within 1 mile of a non-navigable waterway
	Other (specify)10

10.02	is located) in terms of latitude (UTM) coordinates.	and longitude or Uni	iversal Transve	rse Mercader
	Latitude	• • • • • • • • • • • • • • • • • • • •	36.	05.12
	Longitude	••••••	79 . :	25.00
	UTM coordinatesA Zone	, North	ing, E	Casting
10.03	the following information.	<i>TNKNOWN</i>		
	Average annual precipitation	*********		inches/year
	Predominant wind direction			
10.04	Indicate the depth to groundwater  Depth to groundwater			meters
10.05 CBI	For each on-site activity listed, listed substance to the environme Y, N, and NA.)	indicate (Y/N/NA) a nt. (Refer to the in	ll routine releases	ases of the a definition of
[_]	On-Site Activity	Env:	ronmental Relea	
	Manufacturing		N/A	
	Importing	N/A		
	Processing	Yes		
	Otherwise used	N/A		
	Product or residual storage			
	Disposal			
	Transport			
ј м	ark (X) this box if you attach a c	ontinuation sheet.		

10.06	Provide the following information for the listed substance of precision for each item. (Refer to the instructions for example.)	and specify the level r further explanation and
<u>CBI</u>	an example.)	
[_]	Quantity discharged to the air	kg/yr ± %
	Quantity discharged in wastewaters	
	Quantity managed as other waste in on-site treatment, storage, or disposal units	
	Quantity managed as other waste in off-site treatment, storage, or disposal units	
	•	

Process Stream				Days
ID Code	Media Affected <sup>1</sup>	Average Amount of Listed Substance Released <sup>2</sup>	Number of Batches/Year	Opera Ye
		Substance Refeased	Dattiles/ Iear	
•				
				*****
-				
-	···	<del>-</del>		
Use the follow	owing codes to d	designate the media affected:		
A = Air				
B = Land C = Groundwa	ror .			
D = POTW				
E = Navigable F = Non-navie	e waterway gable waterway			
G = Other (s				
Specify the a	average amount og codes to desig	f listed substance released nate the units used to measu	to the environmere the release:	ent and
A = kg/day				
B = kg/batch				

0.08 <u>BI</u>	process block or residua	chnologies used to minimize releas containing the listed substance a al treatment block flow diagram(s) ely for each process type.	s identified in your . Photocopy this quest:
_1	Process type	Potting of I/o Cable	DOWN. Assemblu
	Stream ID Code	Control Technology	Percent Efficier
	•		
		·	

substance in terms residual treatment source. Do not inc sources (e.g., equi	Point Source Emissions Identify each emission point source containing the listed substance in terms of a Stream ID Code as identified in your process block or residual treatment block flow diagram(s), and provide a description of each point source. Do not include raw material and product storage vents, or fugitive emission sources (e.g., equipment leaks). Photocopy this question and complete it separately for each process type.							
Process type								
Point Source ID Code	Description of Emission Point Source							
16	VENTILATION TO CUTSIDE (\$16012)							
.1								
·								
	:							

1	Point Source	WI	Average	- NOT KN	own (For	•	raxunum	Emission	Maximu Emissi
,	ID Code	Physical State	Emissions (kg/day)	Frequency <sup>2</sup> (days/yr)	Duration <sup>3</sup> (min/day)	Average Emission Factor	≥nission Rate (kg/min)	Rate Frequency (events/yr)	Rate Durati (min/ev
								***************************************	
		•		-					
			<del></del>						
		***							
					:				
							-		
	G = Gas	s; V = Vapo	r; P = Partic	ignate physica ulate; A = Aer evel of emissi	osol; 0 = Oth	e point of reer (specify)	lesse:		
	<sup>3</sup> Duratio	on of emissi	ion at any lev	vel of emissio	n				

	Point Source ID Code	Stack Height(m)	Stack Inner Diameter (at outlet) (m)	Exhaust Temperature (°C)	Emission Exit Velocity (m/sec)	Building Height(m) <sup>1</sup>	Building Vidth(m) <sup>2</sup>	Ven Typ
	76.	1,98	2.7	2600	65.53	8.84	CNKNOWN	<u>H</u>
	•							
•								
_								
_								
-	<del></del>							<del></del>
-								
_			-					
_								
1	 Height of	attached o	or adjacent b					
			adjacent bu					
				nate vent ty	'ne•			
F	H = Horizo V = Vertio	ontal			pc.			

	distribution for each Point Source	in particulate form, indicate the particle size ID Code identified in question 10.09. e it separately for each emission point source.
CBI	NIA - NOT A PAR	JICULATE &
_1	Point source ID code	
	Size Range (microns)	Mass Fraction (% ± % precision)
•	<b>&lt; 1</b>	
	≥ 1 to < 10	
	≥ 10 to < 30	
	≥ 30 to < 50	
	≥ 50 to < 100	
	≥ 100 to < 500	
	≥ 500	
		Total = 100%

10.13 <u>CBI</u> [_]	types listed which are exposed to the listed substance and which are in service according to the specified weight percent of the listed substance passing through the component. Do this for each process type identified in your process block or residual treatment block flow diagram(s). Do not include equipment types that are not exposed to the listed substance. If this is a batch or intermittently operated process, give an overall percentage of time per year that the process type is exposed to the listed substance. Photocopy this question and complete it separately for each process type.  Process type  Percentage of time per year that the listed substance is exposed to this process											
	type	Number of Components in Service by Weight Percent of Listed Substance in Process Stream										
	Equipment Type	than 5%	5-10%	11-25%	26-75%	76-99%	Greater than 99%					
	Pump seals <sup>1</sup>						<u> </u>					
	Packed	NIA	NIA	NIA	NIA	11 IA	NIA					
	, Mechanical			1	1	1	1000					
	Double mechanical <sup>2</sup>											
	Compressor seals <sup>1</sup>											
	Flanges											
	Valves						<del></del>					
	Gas <sup>3</sup>											
	Liquid											
	Pressure relief devices (Gas or vapor only)											
	Sample connections											
	Gas					Ì						
	Liquid	:										
	Open-ended lines <sup>5</sup> (e.g., purge, vent)											
	Gas				: : :							
	Liquid	V	<u> </u>	V	<u> </u>		V					
	<sup>1</sup> List the number of pump and compressors	compressor	seals, r	ather tha	n the num	ber of pu	mps or					
0.13	continued on next page											

10.13 (con	tinued)
------------	---------

Pressure Relief Devices with Controls -- Complete the following table for those pressure relief devices identified in 10.13 to indicate which pressure relief devices in service are controlled. If a pressure relief device is not controlled, enter "None" under column c.

a. Number of Pressure Relief Devices	b. Percent Chemical in Vessel	c. Control Device	d. Estimated Control Efficiency <sup>2</sup>		
W 14	NA	DOME NIA	N IA		
-					
	<b>V</b>	V	V		

Refer to the table in question 10.13 and record the percent range given under the heading entitled "Number of Components in Service by Weight Percent of Listed Substance" (e.g., <5%, 5-10%, 11-25%, etc.)

<sup>&</sup>lt;sup>2</sup>If double mechanical seals are operated with the barrier (B) fluid at a pressure greater than the pump stuffing box pressure and/or equipped with a sensor (S) that will detect failure of the seal system, the barrier fluid system, or both, indicate with a "B" and/or an "S", respectively

<sup>&</sup>lt;sup>3</sup>Conditions existing in the valve during normal operation

<sup>&</sup>lt;sup>4</sup>Report all pressure relief devices in service, including those equipped with control devices

<sup>&</sup>lt;sup>5</sup>Lines closed during normal operation that would be used during maintenance operations

<sup>&</sup>lt;sup>2</sup>The EPA assigns a control efficiency of 100 percent for equipment leaks controlled with rupture discs under normal operating conditions. The EPA assigns a control efficiency of 98 percent for emissions routed to a flare under normal operating conditions

]	Process type		•••••			
	Equipment Type	Leak Detection Concentration (ppm or mg/m³) Measured at Inches from Source	Detection Device			Repairs Completed (days after initiated)
•	Pump seals					
	Packed	AIG	NIA	NIB	NIG	NIE
	Mechanical			1	1	i
	Double mechanical					
	Compressor seals					
	Flanges					
	Valves					
	Gas		1			
	Liquid					
	Pressure relief devices (gas or vapor only)					
	Sample connections					
	Gas					
	Liquid	-				
	Open-ended lines					
	Gas					
	Liquid	$\boldsymbol{v}$	V	¥	\/	

Mark (X)

this

			flow diagram	Vessel	Vessel	Vessel		Operating	-	1	ppires	package	•
Vessel Type		Composition of Stored Materials		Filling	Filling Duration (min)	Inner	Vessel Height (m)	Vessel	Vessel Emission Controls	Design Flow Rate	Vent Diameter _(cm)	Control Efficiency (%)	Basis for Estimat
NIA	NIO	MIA	NIA	NIA	NIA	NIA	NIA	NID	_NIA_	Y/A	NID	NIA	NIA
1	1					•	_1	1	1	1	1		I
									$\neg$	1			$\neg$
										+			+
								_		+			-
						-	+	-	_	+			-
7	<del></del>		<del>- \</del>	-		-			-	-		<del>-  </del>	

1 Use the following codes to designate vessel type:

- Fixed roof

CIF = Contact internal floating roof NCIF = Noncontact internal floating roof

EFR = External floating roof

= Pressure vessel (indicate pressure rating)

= Horizontal

= Underground

<sup>2</sup>Use the following codes to designate floating roof seals:

MS1 = Mechanical shoe, primary

MS2 = Shoe-mounted secondary

MS2R = Rim-mounted, secondary

LM1 = Liquid-mounted resilient filled seal, primary

LM2 = Rim-mounted shield ·

LMW = Weather shield

VM1 = Vapor mounted resilient filled seal, primary

VM2 = Rim-mounted secondary

VMW = Weather shield

<sup>&</sup>lt;sup>3</sup>Indicate weight percent of the listed substance. Include the total volatile organic content in parenthesis

<sup>&</sup>lt;sup>4</sup>Other than floating roofs

<sup>&</sup>lt;sup>5</sup>Gas/vapor flow rate the emission control device was designed to handle (specify flow rate units)

<sup>&</sup>lt;sup>6</sup>Use the following codes to designate basis for estimate of control efficiency:

C = Calculations

S = Sampling

PART	D RELEASE TO WATER								
10.17 <u>CBI</u>	National Pollutant Discharge Elimination System (NPDES) Discharges Complete following information for each body of water NPDES discharges are discharged in If discharges are to more than one body of water, photocopy this question and complete it separately for each discharge.								
[_]	Discharge source (stream ID code)								
	Is discharge to a moving or standing body of water? Circle the appropresponse.								
,	Moving body of water								
	Standing body of water								
	Estimated average base flow (moving)	1/day							
	Estimated average volume (standing)	_ 1							
	Average volume of discharge from facility	1/day							
		days/year							
	Maximum volume of discharge from facility	l/day							
		days/year							
	Average concentration of listed substance in discharge	mg/l or ppm							
	Maximum concentration of listed substance in discharge	mg/l or ppm							
10.18 CBI	Publicly Owned Treatment Works (POTW) Complete the following inform discharges containing the listed substance which are discharged to a Pfacility.	ation for OTW from your							
<u></u> 1	Discharge source (stream ID code)								
	Average volume of discharge from facility	l/day							
	•	days/year							
	Maximum volume of discharge from facility	1/day							
		days/year							
	Average concentration of listed substance in discharge	_ mg/l or ppm							
	Maximum concentration of listed substance in discharge	mg/l or ppm							
	Mark (X) this box if you attach a continuation sheet.								

10.19 <u>CBI</u>	Nonpoint Sources Complete the following information for each nonpoint discharge source. Examples of nonpoint sources include stormwater runoff, waste pile runoff, and runoff from product or raw material storage areas or other sources that contain the listed substance and may be discharged to surface water. Exclude NPDES or POTW discharges. If discharges are to more than one body of water, photocopy this question and complete it separately for each discharge.						
[_]	Discharge source (stream ID code)						
	Is discharge to a moving or standing body of water? Circle the appropresponse.	riate					
	Moving body of water	1					
	Standing body of water	2					
	Estimated average base flow (moving)	1/day					
	Estimated average volume (standing)	_ 1					
	Average volume of discharge from facility	1/day					
	***************************************	days/year					
	Maximum volume of discharge from facility	1/day					
		days/year					
	Average concentration of listed substance in discharge	mg/l or ppm					
	Maximum concentration of listed substance in discharge	mg/l or ppm					
	ı						

10.20 CBI	Releases to Soils Complete the following information for up to three random soil core samples that were taken and analyzed for the listed substance during the reporting year. Report the concentrations of the listed substance determined by soil core monitoring studies/tests. Specify the distance from the facility that soil cores were taken, and indicate the soil type and sample depth of the soil cores. (Refer to the glossary for definitions of soil textures given in foo note 2.)									
[_]	Sample  1 2 3	Concentration ( of Listed Subst( ± % precisi	ance		ce from t (m)	Soil Textu		mple n (cm)		
	<sup>1</sup> Use the fo boundary: OS = On-si	llowing code to	designate	if the sa	mple was 1	aken within	the facilit	ty's		
	<sup>2</sup> Use the fo A = Sand B = Loamy C = Sandy D = Loam E = Silty F = Silt	loam		clay loam loam clay loam	m					
10.21 CBI	samples of	Groundwater groundwater from r the listed sub substance.	monitorin	g wells d	uring the	reporting y	ear that wer	re		
t J		Distance	Wel	1	Aver Concent		Maximu Concentra	_		
	Sample	from Plant (m) <sup>1</sup>	Dep (m	th	(mg/ (± % pre	1)	(mg/l) (± % prec	)		
	1									
			•							
	3		-							
	Use the following boundary:  OS = On-sign	llowing code to	designate	if the sam	nple,was t	aken within	the facilit	ty's		
[_]	Mark (X) this	s box if you att	ach a cont	inuation s	sheet.					

10.22 CBI	Releases to from drinki maximum con	Drinking Watering water wells centration refe	r Complete the monitored during ers to the lister	e following table f the reporting yea i substance.	or up to three sample ar. The average and
[ <u>]</u> ]	Well 1	Well Depth (m)	Distance from Plant (m) <sup>1</sup>	Average Concentration (mg/l) (± % precision)	Maximum Concentration (mg/l) (± % precision)
	3				
	<sup>1</sup> Use the fol boundary: OS = On-sit		designate if th	e sample was taken	within the facility's
			•		

10.23 Indicate the date and time when the release occurred and when the release ceased or was stopped. If there were more than six releases, attach a continuation sheet and list all releases. No NoMECOLTENS RECEASES.

Release	Date Started	Time (am/pm)	Date Stopped	Time (am/pm)
1	NA	W13	NIB	N 1/2
3				
4				
5				
6			<u> </u>	

10.24 Specify the weather conditions at the time of each release.

1					
Release	Wind Speed (km/hr)	Wind Direction	Humidity (%)	Temperature (°C)	Precipitation (Y/N)
1				***************************************	
2					
3		<del></del>	-		
4				-	•
5					
6	•		****		

	expected to volatilize, should be listed as a release to air.  Release No										
	Release No	Quantity (kg)	Method of Release	Migration Beyond Boundaries	Quantity Migrated						
	Land			<u>(Y/N)</u>	(kg)						
	Air										
	Groundwater										
	Surface water										
10.26	Specify the phys	sical state and o	concentration of the listed	substance at the	e time and						
	Release No										
	Point of release										
	Physical state										
	Physical state .	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	••••							
			•••••••••••								
		()									
		()									
		()									
		()									

10.27	Circle all appropriate responses relating to the cause and the effects of the release.	
	Release No	
	Cause of Release	
	Equipment failure	1
	Operator error	2
	Bypass condition	3
	Upset condition	4
	Fire	5
	Unknown	6
	Other (specify)	7
	Results of Release	
	Spill	1
	Vapor release	2
	Explosion	3
	Fire	4
	Other (specify)	5

10.28	Spe	cify which authorities were notified of the release.
	Rel	ease No
	a.	Federal Programme Teacher Teac
		Agency [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
		Office [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
		Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]]]]
		Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]]]]]
		[]] State
		Telephone Number
	_	Date Notified
	•	Time Notified
	ъ.	<u>State</u>
		Agency [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
		Office (
		Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
		Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
		(
		[_]_] State
		Telephone Number
		Date Notified [_]_] [_]_] [_]_] [_]_
		Time Notified [_]_]_] am/pr
10.28	COI	ntinued below
[_]	Marl	k (X) this box if you attach a continuation sheet.

10.28	(cc	ontinued)						
	c.	Local						
		Agency	[_]	[]_]_]		1_1_1_1		: <u> </u>  _ _ _
		Office	[_	[]_]_]		1_1_1_1	111_	[1_1_1_1_1
		Contact P	erson [_	[]_[]_1	_1_1_1_1_1_1	1_1_1_1	_1_1_1_	[]_1_1_1_1
		Address	[_]_]_	1_1_1_1	_1_1_1_1_1_1	]]]_] Street	111_	[]_]_]_]
			[_]_]_	1_1_1_1	_1_1_1_1_1_1	]]]_]]]		[1_1_1_1]
								[]]   State
•		Telephone	Number	• • • • • • • • • •	[	_]_]_]-	[_]_]-	[_1_1_1_1
		Date Noti:	fied	• • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • •		]_] [_]_] Day Year
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10.30	the release.
	Release No
	Number of injuries to facility employees
	Number of injuries to general population
	Number of deaths to facility employees
	Number of deaths to general population
10.31	Indicate who conducted cleanup activities, and the dates over which the cleanup was performed.
	Release No
	Name [_]_]_]_]_]_]_]_]_]_]_]_]
	Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]]]]]]]]]]
÷	
	[_]_] [_]_]_]_]_][_]_]_]_] State
	Telephone Number [_]]_]-[_]]_]-[_]]]]
	Date Cleanup Initiated [_]_][_][_]]   Ho.   Year
	Date Cleanup Completed (or expected)
10.32	Briefly describe the release prevention practices and policies (backup systems, containment systems, training programs, etc.) in place at the facility at the time the release occurred.
	Release No
<u></u>	Mark (X) this box if you attach a continuation sheet.

10.33	Indicate which of the prevention practices and policies listed in question 10.32 were ineffective in preventing the release from reaching the environment.  Release No						
10.34	Describe all repairs and/or preventive measures (management practices, operational changes, etc.) made to equipment or operations as a result of the release.						
	Release No						
0.35	Describe additional preventive measures that will be taken to minimize the possibilities of recurrence.						
	Release No						
	·						
	·.						
<sub>1 м</sub>	ark (X) this box if you attach a continuation sheet.						

	APPENDIX	I:	List	of	Continuation	Sheets
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Attach continuation sheets for sections of this form and optional information after this page. In column 1, clearly identify the continuation sheet by listing the question number to which it relates. In column 2, enter the inclusive page numbers of the continuation sheet for each question number.

	Question (1)					Continuation Sheet Page Numbers (2)
4.02 - Trac	dename	Suppliers	MSDS		Con	rop - Page 1 → Page
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APPENDIX II: Substantiation Form and Instructions to Accompany Claims of Confidentiality Under the Comprehensive Assessment Information Rule (CAIR)

If you assert one or more claims of confidentiality for information submitted on a Comprehensive Assessment Information Rule (CAIR) form, please answer, pursuant to 40 CFR 740.219, all the following questions in the space provided. Type all responses. If you need more space to answer a particular question, please use additional sheets. If you use additional sheets, be sure to include the section, number, and (if applicable) subpart of the question being answered, and write your facility's name and Dun & Bradstreet Number in the lower right-hand corner of each sheet. A completed copy of this form must accompany all submissions containing one or more claims of confidentiality. Failure to do so will result in the waiver of your claim of confidentiality.

EPA has identified six information categories as those which encompass all claims of confidentiality. These are: Submitter identity (h); Substance identity (i); Volume manufactured, imported, or processed (j); Use information (k); Process information (l); and Other information (m). Respondents who assert a CBI claim on the reporting form must mark the letter(s) (h through m) that represent(s) the appropriate category(ies) of confidentiality in the box adjacent to the question, and answer the questions in this form.

Respondents who assert a CBI claim for information submitted under CAIR must also provide EPA with sanitized and unsanitized versions of their submissions. The unsanitized version must be complete and contain all information being claimed as confidential. The sanitized copy must contain only information not claimed as confidential. EPA will place the second copy of the submission in the public file. Failure to submit the second copy of the form at the time the respondent submits the reporting form containing confidential information or after receipt of a notice from EPA thereafter will result in a waiver of the respondent's claim of confidentiality.

Please indicate the CAS Registry Number (if known) or chemical name (if the CAS Registry Number is not known) for the substance that is the subject of this form: 584-84-9

If you are reporting on a tradename, please provide the tradename for the substance that is the subject of this form:

EN-9 OZR Part A

Does this form contain CBI? [ ] Yes

M No

If the answer to this question is yes, you must bracket the text claimed as CBI. Any unbracketed information may be placed in the public file.

[_]	Mark (X)	this box	if you	attach a	continuation	sheet.	

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[_] Mark (X) this box if you attach a continuation sheet.
If so, indicate why the information should nonetheless be considered confidential.
[ ] Yes
Does it appear or is it referred to in professional or trade publications?
[ ] Yes
containing the substance?
(4) Does the information you are claiming as confidential appear or is it referred to in advertising, promotional, or safety materials for the substance or an end-product
(3) Briefly describe the physical and procedural restrictions, if any, within your company on the use and storage of the information you are claiming as confidential. What other steps have you taken to prevent the undesired disclosure of the information by others?
If so, what, if any, restrictions apply to the use or further disclosure of the information?
[ ] Yes
(2) Has the information that you are claiming as confidential been or will it be disclosed to individuals outside your company?
until a certain event or point in time, please indicate that event or time period. If the period indicated is longer than 2 calendar years, explain why. If different periods of protection are required for different categories of information, please so indicate.
in addition to the appropriate questions from sections B through G, below:  (1) For what period do you assert a claim of confidentiality? If a claim is to extend
A. All Claims. Respondents who assert any CBI claims must answer the following questions

(5) If the information you wish to claim as confidential were to be disclosed to the public by EPA, how much difficulty would a new competitor have in entering the market for this substance, considering such constraints as capital and marketing costs, specialized marketing expertise, or unusual production processes?
(6) Has EPA, another Federal agency, or a Federal Court made any pertinent confidentiality determinations for information regarding this substance?
[ ] Yes [ ] No
If so, please identify the entity and provide EPA with copies of such determinations.
B. <u>Submitter Identity</u> (code h). Respondents who assert CBI claims for submitter identity must also answer the following questions:
(1) Approximately how many competitors do you have in the market for this substance or the final product containing this substance?
(2) What harm, if any, would result from EPA's disclosure of the submitter identity? Provide detailed descriptions of both the probable harm from disclosure and the causal relationship between disclosure and harm.
(3) If you have also asserted a claim of confidentiality for substance identity, what harm to your company's competitive position would result from disclosure of your company's identity if the substance identity were to remain confidential?
[ ] Mark (X) this box if you attach a continuation sheet.
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Chemica	ent al:	ance Identity (code i). Specific substance identity can be claimed as ial only if that substance identity is confidential for purposes of the TSCA Substance Inventory. Respondents who assert CBI claims for substance identity answer the following questions:
(1) (	a)	Has the substance been patented or disclosed in a patent in the U.S. or elsewhere?
		[ ] Yes
		If so, indicate the relevant patent(s) and the reasons why the substance identit should nonetheless be considered confidential.
		Patent Number:
(i	b)	Exactly what information which does not appear in the patent would be disclosed to competitors by releasing the specific substance identity? Explain in detail how competitors could use this information.
(0	e <b>),</b>	Since the patent provides protection for the substance, why are you asserting confidentiality?
(2) (a	a)	In what form (i.e., product, effluent, emission, etc.) does this substance leave your site?
(t	<b>)</b>	What measures have you taken to guard against the discovery of the substance identity by others?
[ <u> </u>	lark	(X) this box if you attach a continuation sheet.

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[_]	Mark	(X) this box if you attach a continuation sheet.
		I public disclosure of the specific chemical identity reveal to your competitors the substance or the process by which this substance is manufactured?
/E\	·	
disclo	sure	e and the causal relationship between release and harm.
identi	ťÿ?	harm, if any, would result from EPA's public disclosure of the specific chemical Provide detailed descriptions of both the probable harm to your company from
(	c)	Would the cost and difficulty of such analysis be great or small? Why?
		[ ] Yes
(1	b)	Is it likely that a competitor has attempted or will attempt to chemically analyze the substance?
		[ ] Yes [ ] No
(3) (	(a)	If the substance leaves the site in a product that is available to the public or your competitors, can the substance be identified by analysis of the product?
(	(c)	If the substance is formulated with other chemicals, list them, and state the concentration of the claimed substance in the mixture.

D.	Volum	e Manuf	actured,	Importe	d, or	Proces	sed (c	ode j	). 1	Respo	ndents	who	assert	CBI
clair	ns for	volume	manufac	tured, i	mporte	d, or	proces	sed m	ust	also	ansver	the	follow	ing
quest	tions:													

- (1) If you have also claimed submitter's name as confidential and EPA keeps confidential the link between your company identity and the volume manufactured, imported, or processed, your identity will not be associated in any way with that volume. In this case, what harm to your company's competitive position would result from disclosing that volume? How could a competitor use this information? What is the causal relationship between the disclosure and the harm?
- (2) If you have also claimed substance identity as confidential and EPA keeps confidential the link between the substance identity and the volume manufactured, imported, or processed, the substance identity will not be associated in any way with that volume. In this case, what harm to your company's competitive position would result from disclosing that volume? How could a competitor use that information? What is the causal relationship between the disclosure and the harm?
- (3) If you have claimed neither submitter nor substance identity as confidential, what harm, if any, would result from release of your volume manufactured, imported, or processed? Provide a detailed description of both the harm and the causal relationship between disclosure and harm.
- E. <u>Use Information</u> (code k). Respondents who assert CBI claims for use information must also answer the following questions:
- (1) If you have also claimed submitter identity as confidential and EPA keeps confidential the link between your company identity and the use data, your identity will not be associated in any way with the use data. In this case, what harm to your competitive position would result from disclosing the use data? How could a competitor use this information? What is the causal relationship between the disclosure and the harm?

[_]	Mark (X)	this	box if	you atta	ach a	a continuation	sheet.		

(2) If you have also claimed substance identity as confidential and EPA keeps confident the link between the substance identity and the use data, the substance identity will not be associated in any way with the use data. In this case, what harm to your company's competitive position would result from disclosing the use data? How could a competitor this information? What is the causal relationship between the disclosure and the harm?	10 t
(3) If you have claimed neither submitter nor substance identity as confidential, what harm, if any, would result from release of your use information? Provide a detailed description of both the harm and the causal relationship between disclosure and harm.	
F. Process information (code 1). Respondents who assert CBI claims for process information must also answer the following questions:	
(1) If you have also claimed submitter identity as confidential and EPA keeps confiden the link between your company identity and process information, your identity will not associated in any way with this information. In this case, what harm to your competition position would result from disclosing the process information? How could a competitor this information? What is the causal relationship between the disclosure and the harm?	be ve
(2) If you have also claimed substance identity as confidential and EPA keeps confiden the link between the substance identity and the process information, the substance iden will not be associated in any way with the process information. In this case, what har	tity n to
your company's competitive position would result from disclosing the process information disclosing the process information disclosing the process information? What is the causal relationship between the disclosure and the harm?	37

Good a contract trong term	r submitter nor substance identity as confidential, what harm, is ease of your process information? Provide a detailed description ausal relationship between the disclosure and the harm.
- category, most	e m). Respondents who assert CBI claims using the "other also answer the following questions:
reported on this form? If	al in and of itself, or is it confidential because it will ial information, whether or not that other information is the latter, what is the information that will be revealed, and item in turn lead to disclosure of the other information?
(2) Describe with specific result from disclosing the	ity the harm to your company's competitive position which would information.
associated in any way with a position would result from a	ed submitter identity as confidential and EPA keeps confidential ny identity and this information, your identity will not be the item claimed. In this case, what harm to your competitive disclosing the item? How could a competitor use this ausal relationship between the disclosure and the harm?
category name) will not be a harm to your company's compe	ed substance identity as confidential and EPA keeps confidential nce identity and the item, the substance identity (other than associated in any way with the item claimed. In this case, what etitive position would result from disclosing the item? How information? What is the causal relationship between the
Mark (X) this how if	ou attach a continuation sheet.

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